

2.4.5 Benthos

2.4.5.1 Objectives

No change in objectives has occurred since Progress Report 3. See section 2.4.5.1 of Progress Report 3 for specific objectives.

2.4.5.2 Methods

The methods reported in section 2.4.5.2 of Progress Reports 2 and 3 remain unchanged, with the exception that the D-frame net was utilized during the May - June 1975 sampling of the White River. See section 2.4.5.2 of Progress Reports 2 and 3 for specific methods used in benthos sampling and analysis.

2.4.5.3 Results

Appendix C-12-1 lists the 118 benthic taxa observed in samples taken during April 1975 and Appendix C-13-1 lists the 92 taxa found during the May - June sampling. Appendices C-12-2 and C-13-2 present the quantitative benthos data from April and May - June 1975. At the headwater stations during both sampling periods, the most abundant taxa included Chironomidae, Amphipoda, Nematoda, Oligochaeta, Baetidae, Ceratopogonidae, Tipulidae, and Simuliidae. At tract stations, Ceratopogonidae, Nematoda, Baetidae, Plecoptera, and Oligochaeta were most abundant. In Yellow Creek, Oligochaeta, Ceratopogonidae, Acari, Chironomidae, Nematoda, and Simuliidae were present in greatest abundance. In the White River the most abundant taxa during both sampling periods belonged to the Chironomidae, Ephemerellidae, Tricorythidae, Oligochaeta, Plecoptera, and Simuliidae.

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2.4.5 - Benthos Data

APPENDIX C-11-1

DENSITIES OF DRIFT MACROINVERTEBRATES
OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES
APRIL 1975

APPENDIX C-11-1

DRIFT MACROINVERTEBRATES OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES, APRIL 1975¹.
(Organisms/m³; Data obtained from zooplankton collections.)

	Station Replicate					
	1		2		3	
	A	B	A	B	A	B
Nematoda	150	440	20	150	40	40
Oligochaeta		60	50	100	710	580
Arthropoda						
Insecta						
Coleoptera						
Collembola						
Diptera						
Ceratopogonidae					30	30
Chironomidae	30	80	150	60	600	330
Simuliidae		10				30
Diptera Larvae (misc)						
Ephemeroptera	90			30		10
Plecoptera						10
Trichoptera						

¹Stations 6, 10-12 and 15-18 were dry at the time of sampling.

APPENDIX C-11-1 (Continued)

	Station Replicate			
	4		5	
	A	B	A	B
Nematoda	20	110	20	50
Oligochaeta	420	890	110	110
Arthropoda				
Insecta				
Coleoptera				
Collembola				
Diptera				
Ceratopogonidae		30	10	20
Chironomidae	40	90	440	300
Simuliidae		10		70
Diptera Larvae (misc)				
Ephemeroptera	50	30		
Plecoptera	10	30		10
Trichoptera			10	

APPENDIX C-11-1 (Continued)

	Station Replicate					
	7		8		9	
	A	B	A	B	A	B
Nematoda		60		40		40
Oligochaeta		580	80	1,010		3,130
Arthropoda						
Insecta						
Coleoptera						
Collembola						
Diptera						
Ceratopogonidae				20		
Chironomidae	10		80	40	250	200
Simuliidae					10	
Diptera Larvae (misc)						
Ephemeroptera			20	150	110	200
Plecoptera			10			10
Trichoptera						

1881

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1881	1	2	3	4	5	6	7	8	9	10	11	12
1882	13	14	15	16	17	18	19	20	21	22	23	24
1883	25	26	27	28	29	30	31	32	33	34	35	36
1884	37	38	39	40	41	42	43	44	45	46	47	48
1885	49	50	51	52	53	54	55	56	57	58	59	60

1886

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1886	61	62	63	64	65	66	67	68	69	70	71	72
1887	73	74	75	76	77	78	79	80	81	82	83	84
1888	85	86	87	88	89	90	91	92	93	94	95	96
1889	97	98	99	100	101	102	103	104	105	106	107	108

APPENDIX C-11-1 (Continued)

	Station Replicate			
	13		14	
	A	B	A	B
Nematoda	110	1,370	40	150
Oligochaeta	2,430	4,760	70	30
Arthropoda				
Insecta				
Coleoptera			10	
Collembola				
Diptera				
Ceratopogonidae	180	80	20	50
Chironomidae	1,110	2,080	710	1,420
Simuliidae		20		
Diptera Larvae (misc)				
Ephemeroptera		50	450	800
Plecoptera		10		
Trichoptera				

APPENDIX C-11-1 (Continued)

	Station Replicate					
	19		20		21	
	A	B	A	B	A	B
Nematoda	20	10	10	30	50	660
Oligochaeta	40	50	70	50	60	50
Arthropoda						
Insecta						
Coleoptera			10			
Collembola					10	
Diptera						
Ceratopogonidae	170	160	20		40	120
Chironomidae	970	900	1,040	1,350	540	850
Simuliidae	30		10	10		
Diptera Larvae (misc)						
Ephemeroptera			20			
Plecoptera						
Trichoptera	20					

APPENDIX C-11-1 (Continued)

	Station Replicate					
	22		23		24	
	A	B	A	B	A	B
Nematoda	30	30		20		60
Oligochaeta	20	50	170	60	10	150
Arthropoda						
Insecta						
Coleoptera						
Collembola	30	10				
Diptera						
Ceratopogonidae	10	20				20
Chironomidae	320	340	50	50	10	100
Simuliidae	10				10	
Diptera Larvae (misc)						
Ephemeroptera			40	10	20	20
Plecoptera						
Trichoptera						

APPENDIX C-11-1 (Continued)

	Station Replicate					
	25		26		27	
	A	B	A	B	A	B
Nematoda		10	10	10	30	40
Oligochaeta	8	40	100	40	140	120
Arthropoda						
Insecta						
Coleoptera						
Collembola						
Diptera						
Ceratopogonidae						10
Chironomidae	100	130	40	70	60	30
Simuliidae	10			10	10	
Diptera Larvae (misc)						
Ephemeroptera	40	50	10	10	20	
Plecoptera						
Trichoptera						

APPENDIX C-11-1(Continued)

	Station Replicate					
	28		29		30	
	A	B	A	B	A	B
Nematoda	10	70	20	100	10	40
Oligochaeta	100	70	60	30	20	110
Arthropoda						
Insecta						
Coleoptera						
Collembola						
Diptera						
Ceratopogonidae						
Chironomidae	80	30	50	50	10	100
Simuliidae			10			
Diptera Larvae (misc)						
Ephemeroptera	10	10	20	10		30
Plecoptera						
Trichoptera				10		

APPENDIX C-11-1 (Continued)

	Station Replicate					
	31		32		33	
	A	B	A	B	A	B
Nematoda	30	110	30		10	
Oligochaeta	110	60	150	10	40	90
Arthropoda						
Insecta						
Coleoptera						
Collembola						10
Diptera						
Ceratopogonidae						20
Chironomidae	40	60	70	90	40	80
Simuliidae						20
Diptera Larvae (misc)						
Ephemeroptera			10	20		50
Plecoptera						
Trichoptera						10

APPENDIX C-11-1 (Continued)

	Station			
	Replicate			
	34		35	
	A	B	A	B
Nematoda				
Oligochaeta	40	40	70	130
Arthropoda				
Insecta				
Coleoptera				
Collembola				
Diptera				
Ceratopogonidae				
Chironomidae	10	50		70
Simuliidae			20	
Diptera Larvae (misc)				
Ephemeroptera		10	10	10
Plecoptera				
Trichoptera				

APPENDIX C-11-2

DENSITIES OF DRIFT MACROINVERTEBRATES
OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX C-11-2

DENSITIES OF DRIFT MACROINVERTEBRATES OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975
(Organisms/m³; Data obtained from zooplankton collections.)

		Station Replicate			
		1		2	
		A	B	A	B
Nematoda			10		70
Oligochaeta			20	40	20
Arthropoda					
Insecta					
Coleoptera					
Collembola					
Diptera					
Ceratopogonidae					10
Chironomidae		100	150	200	60
Simuliidae			10		
Tipulidae					10
Diptera Larvae (misc)					20
Ephemeroptera		300	170		30
Plecoptera					10
Trichoptera					

¹Stations 10-12 and 15-18 were dry at time of sampling.

APPENDIX C-11-2 (Continued)

	Station					
	Replicate					
	4		5		6	
	A	B	A	B	A	B
Nematoda	210	180	30	130	190	30
Oligochaeta	250	40	60	40	170	20
Arthropoda						
Insecta						
Coleoptera				10		
Collembola	10	40				10
Diptera						
Ceratopogonidae		10		30	20	
Chironomidae	90		1,320	1,840	230	120
Simuliidae			100	180		
Tipulidae						
Diptera Larvae (misc)						
Ephemeroptera			10		10	
Plecoptera						
Trichoptera						

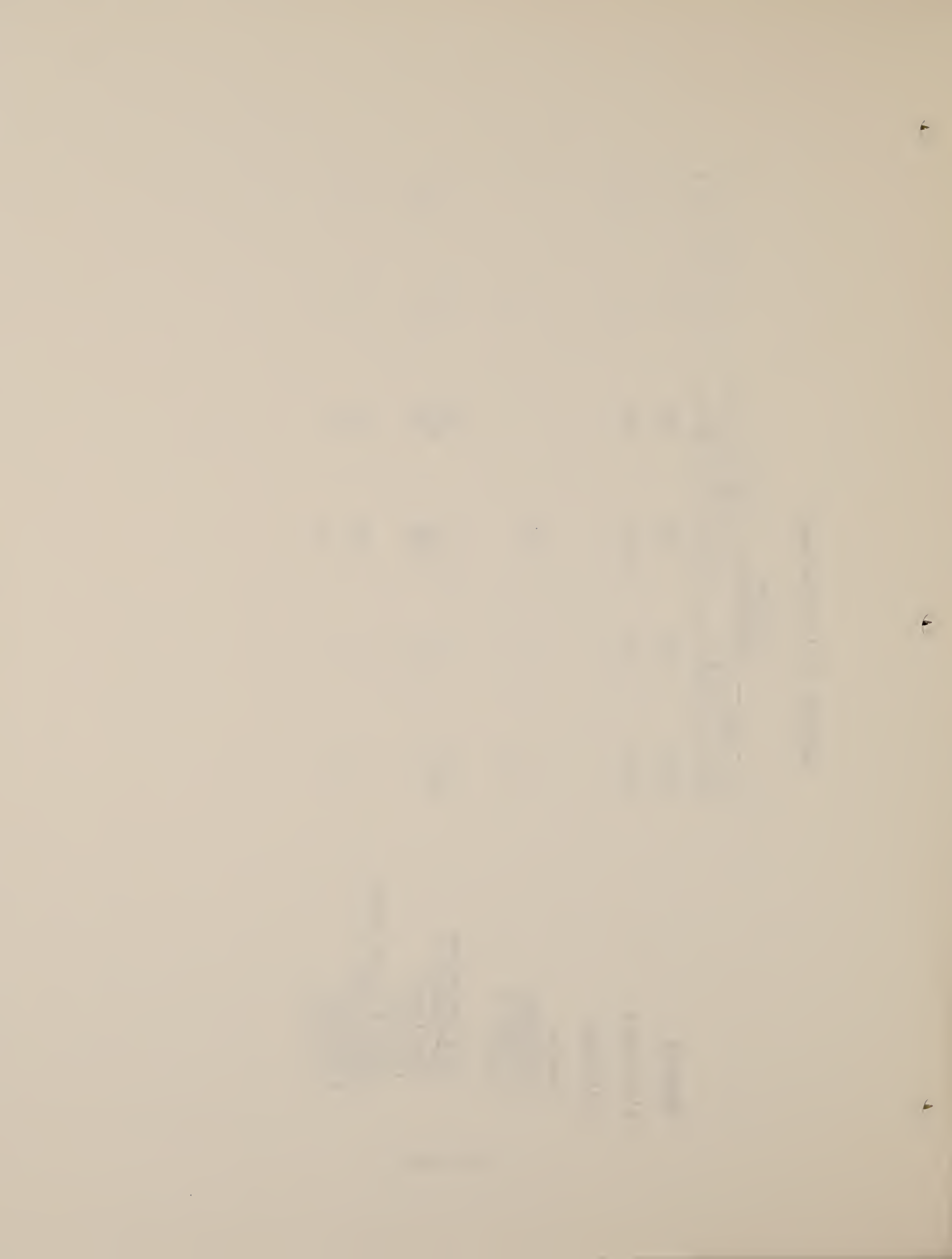
APPENDIX C-11-2 (Continued)

	Station Replicate					
	7		8		9	
	A	B	A	B	A	B
Nematoda	1,980	620	10	20	340	1,150
Oligochaeta	4,200	2,670	80	20	8,420	8,850
Arthropoda						
Insecta						
Coleoptera		10				
Collembola					20	
Diptera						
Ceratopogonidae	40	20			40	20
Chironomidae	860	660	80	140	2,880	3,200
Simuliidae		20				
Tipulidae						
Diptera Larvae (misc)						10
Ephemeroptera	20	40			10	10
Plecoptera	50					
Trichoptera						



APPENDIX C-11-2 (Continued)

	Station Replicate			
	13		14	
	A	B	A	B
Nematoda	250	60	260	230
Oligochaeta	300	80	2,490	630
Arthropoda				
Insecta				
Coleoptera			120	
Collembola	10			
Diptera				
Ceratopogonidae				30
Chironomidae	470		1,180	810
Simuliidae			100	60
Tipulidae				
Diptera Larvae (misc)				
Ephemeroptera			150	60
Plecoptera				10
Trichoptera			40	



APPENDIX C-11-2 (Continued)

	Station Replicate					
	19		20		21	
	A	B	A	B	A	B
Nematoda			10	10	30	
Oligochaeta	120	920	10			
Arthropoda						
Insecta			10			
Coleoptera						20
Dytiscidae						
Collembola	10					
Diptera						
Ceratopogonidae			10		40	70
Chironomidae	460	400	400	250	380	420
Simuliidae	90	70	70	10	10	20
Tipulidae						
Diptera Larvae (misc)						
Ephemeroptera		190				
Plecoptera						
Trichoptera	10					

APPENDIX C-11-2 (Continued)

	Station Replicate					
	22		23		24	
	A	B	A	B	A	B
Nematoda			70	70	10	40
Oligochaeta			30	70	10	
Arthropoda						
Insecta						
Coleoptera						
Collembola						
Diptera						
Ceratopogonidae		20				
Chironomidae	70	150		40	30	
Simuliidae						
Tipulidae						
Diptera Larvae (misc)			10			
Ephemeroptera			30	10	20	
Plecoptera						
Trichoptera						

APPENDIX C-11-2 (Continued)

	Station Replicate					
	25		26		27	
	A	B	A	B	A	B
Nematoda	70	30	40		90	80
Oligochaeta		20	10	10	10	10
Arthropoda						
Insecta						
Coleoptera						
Collembola			10			
Diptera						
Ceratopogonidae						
Chironomidae	10	10	20		30	10
Simuliidae	10		10			
Tipulidae						
Diptera Larvae (misc)						
Ephemeroptera	10	10		20	10	
Plecoptera						
Trichoptera						

APPENDIX C-11-2 (Continued)

	Station Replicate					
	28		29		30	
	A	B	A	B	A	B
Nematoda	50	60	30	150	30	
Oligochaeta	10			10		
Arthropoda						
Insecta						
Coleoptera						
Collembola						
Diptera						
Ceratopogonidae						
Chironomidae	20	10	50		40	
Simuliidae						
Tipulidae						
Diptera Larvae (misc)						
Ephemeroptera	10		10			20
Trichoptera						

APPENDIX C-11-2 (Continued)

	Station Replicate					
	31		32		33	
	A	B	A	B	A	B
Nematoda	10	30	10	10	50	20
Oligochaeta					10	20
Arthropoda						
Insecta						
Coleoptera		10				
Collembola						
Diptera						
Ceratopogonidae						
Chironomidae	20		10		20	10
Simuliidae						
Tipulidae						
Diptera Larvae (misc)						
Ephemeroptera		10	10		10	
Plecoptera						
Trichoptera						

APPENDIX C-11-2 (Continued)

	Station			
	Replicate			
	34		35	
	A	B	A	B
Nematoda	20	40	20	40
Oligochaeta		10	20	
Arthropoda				
Insecta				
Coleoptera				
Collembola				
Diptera				
Ceratopogonidae				
Chironomidae		10	20	20
Simuliidae				
Tipulidae				
Diptera Larvae (misc)				
Ephemeroptera		50	10	40
Plecoptera				
Trichoptera				

APPENDIX C-11-3

DENSITIES OF DRIFT MACROINVERTEBRATES OBSERVED
DURING RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

APPENDIX C-11-3

DENSITIES OF DRIFT MACROINVERTEBRATES OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975
(Organisms/m³; data obtained from zooplankton collections)

	Station Replicate		
	<u>1</u> <u>A</u>	<u>2</u> <u>A</u>	<u>3</u> <u>A</u>
Nematoda		400	2,000
Oligochaeta		20	550
Arthropoda			
Insecta			
Coleoptera			20
Collembola			
Diptera			
Ceratopogonidae			
Chironomidae	810	480	570
Simuliidae	90	380	20
Tipulidae		20	
Diptera Larvae (misc)	60	10	30
Ephemeroptera	230	60	
Plecoptera		20	
Trichoptera		10	20

[†] Stations 6, 10-12 and 16 were dry at time of sampling.

APPENDIX C-11-3 (Continued)

	Station Replicate	
	<u>4</u> <u>A</u>	<u>5</u> <u>A</u>
Nematoda		
Oligochaeta	90	110
Arthropoda		
Insecta		
Coleoptera		
Collembola	50	
Diptera		
Ceratopogonidae	10	
Chironomidae	570	550
Simuliidae	200	10
Diptera Larvae (misc)		
Ephemeroptera	20	50
Plecoptera		
Trichoptera	20	30

APPENDIX C-11-3 (Continued)

	Station Replicate		
	<u>7</u> <u>A</u>	<u>8</u> <u>A</u>	<u>9</u> <u>A</u>
Nematoda			400
Oligochaeta	10	60	200
Arthropoda			
Insecta			
Coleoptera			
Collembola			
Diptera			
Ceratopogonidae	20		10
Chironomidae	580	220	760
Simuliidae			10
Tipulidae			10
Diptera Larvae (misc)	30	10	20
Ephemeroptera	80	10	
Plecoptera	10		
Trichoptera			

APPENDIX C-11-3 (Continued)

	Station Replicate		
	<u>13</u> <u>A</u>	<u>14</u> <u>A</u>	<u>15</u> <u>A</u>
Nematoda			600
Oligochaeta	70	200	2,230
Arthropoda			
Insecta			
Coleoptera	10		
Collembola			20
Diptera			
Ceratopogonidae		10	20
Chironomidae	780	530	1,070
Simuliidae	10	40	10
Diptera Larvae (misc)	10		30
Ephemeroptera	10	30	20
Plecoptera			
Trichoptera	10	20	

APPENDIX C-11-3 (Continued)

	Station Replicate	
	<u>17</u> <u>A</u>	<u>18</u> <u>A</u>
Nematoda	200	400
Oligochaeta	50	60
Arthropoda		
Insecta		
Coleoptera	10	
Collembola		2,600
Diptera		
Ceratopogonidae		
Chironomidae	50	70
Simuliidae		
Diptera Larvae (misc)		
Ephemeroptera		
Plecoptera		
Trichoptera		10

APPENDIX C-11-3 (Continued)

	Station Replicate		
	<u>19</u>	<u>20</u>	<u>21</u>
	<u>A</u>	<u>A</u>	<u>A</u>
Nematoda		200	
Oligochaeta		60	
Arthropoda			
Insecta			
Coleoptera			
Collembola			
Diptera			
Ceratopogonidae		30	50
Chironomidae	120	120	60
Simuliidae	60	40	
Diptera Larvae (misc)			
Ephemeroptera			40
Hemiptera			
Notonectidae	10		
Plecoptera			
Trichoptera	10	20	

APPENDIX C-11-3 (Continued)

	Station Replicate		
	<u>22</u>	<u>23</u>	<u>24</u>
	<u>A</u>	<u>A</u>	<u>A</u>
Nematoda	200		600
Oligochaeta		30	20
Arthropoda			
Insecta			
Coleoptera			
Collembola			
Diptera			
Ceratopogonidae			
Chironomidae	140	10	110
Simuliidae			20
Diptera Larvae (misc)			10
Ephemeroptera	80		10
Hemiptera			
Notonectidae	10		
Plecoptera	10		20
Trichoptera	10		20



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APPENDIX C-11-3 (Continued)

	Station Replicate		
	<u>25</u> <u>A</u>	<u>26</u> <u>A</u>	<u>27</u> <u>A</u>
Nematoda	1,200	600	
Oligochaeta	40	20	10
Arthropoda			
Insecta			
Coleoptera			
Collembola			
Diptera			
Ceratopogonidae			
Chironomidae	140	110	
Simuliidae	10		
Diptera Larvae (misc)			
Ephemeroptera	40	50	
Plecoptera		10	
Trichoptera		10	

	Station Replicate		
	<u>28</u> <u>A</u>	<u>29</u> <u>A</u>	<u>30</u> <u>A</u>
Nematoda	800	400	800
Oligochaeta	60	40	
Arthropoda			
Insecta			
Coleoptera			
Collembola			20
Diptera			
Ceratopogonidae			10
Chironomidae	20	30	130
Rhagionidae			10
Simuliidae	10		
Diptera Larvae (misc)			
Ephemeroptera		10	50
Plecoptera			10
Trichoptera	10		40

1. The first part of the paper discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the success of any business and for the protection of the interests of all parties involved. The author argues that without accurate records, it is impossible to make informed decisions or to identify areas for improvement.

2. The second part of the paper describes the various methods used to collect and analyze data. It includes a detailed discussion of the different types of data that can be collected, such as sales data, customer feedback, and market research. The author also discusses the importance of using statistical methods to analyze this data and to draw meaningful conclusions from it.

3. The third part of the paper focuses on the importance of communication in the business world. It argues that effective communication is essential for building strong relationships with customers, suppliers, and other stakeholders. The author provides several examples of how good communication can lead to increased sales, improved customer satisfaction, and better overall business performance.

4. The fourth part of the paper discusses the importance of innovation in the business world. It argues that innovation is essential for staying ahead of the competition and for creating new opportunities for growth. The author provides several examples of how innovation has led to the success of many major companies and how it can be used to improve business performance.

5. The fifth part of the paper discusses the importance of ethics in the business world. It argues that ethical behavior is essential for building trust and for maintaining a good reputation. The author provides several examples of how ethical behavior has led to the success of many major companies and how it can be used to improve business performance.

III. CONCLUSION

The paper concludes by emphasizing the importance of all the factors discussed above. It argues that success in the business world requires a combination of accurate record-keeping, effective data analysis, good communication, innovation, and ethical behavior. The author encourages readers to take action on these factors to improve their own business performance and to create a more successful and sustainable future.

	Station Replicate		
	<u>31</u> <u>A</u>	<u>32</u> <u>A</u>	<u>33</u> <u>A</u>
Nematoda	200	400	400
Oligochaeta	90	10	20
Arthropoda			
Insecta			
Coleoptera			
Collembola			
Diptera			
Ceratopogonidae			
Chironomidae	50	40	70
Simuliidae		10	10
Diptera Larvae (misc)			
Ephemeroptera	10		10
Plecoptera			
Trichoptera	10		10

	Station Replicate	
	<u>34</u> <u>A</u>	<u>35</u> <u>A</u>
Nematoda	600	2,800
Oligochaeta	20	
Arthropoda		
Insecta		
Coleoptera		
Collembola		
Diptera		
Ceratopogonidae		
Chironomidae	80	10
Simuliidae		10
Diptera Larvae (misc)		
Ephemeroptera	10	
Plecoptera		
Trichoptera	70	

APPENDIX C-12-1

MACROINVERTEBRATE TAXA OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES
APRIL 1975

APPENDIX C-12-1

MACROINVERTEBRATE TAXA OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES, APRIL 1975

Platyhelminthes

Tubellaria

Tricladia

Nematoda

Mollusca

Gastropoda

Lymnea Lamarck

Physa Draparnaud

Annelida

Oligochaeta

Aeolostomatidae

Enchytraeidae

Haplotaxidae

Haplotaxis

Lumbriculidae

Naididae

Nais behingi

Nais elinguis

Nais sp.

Pristina

Tubificidae

Ilyodrilus templetoni

Limnodrilus claparedeianus

Limnodrilus hoffmeisteri

Limnodrilus spiralis

Limnodrilus udekemianus

Limnodrilus sp. 1

Tubifex tubifex

Unidentified Tubificidae sp. 1

Immature Tubificidae with capilliform chaetae

Immature Tubificidae without capilliform chaetae

Rhyacodrilinae

Rhyacodrilinae sp.

Hirundinea

Helobdella stagnalis (Linnaeus)

Arthropoda

Crustacea

Ostracoda

Amphipoda

Hyallela azteca (Saussure)

Insecta

Collembola

Ephemeroptera

Baetidae

APPENDIX C-12-1 (Continued)

Baetis Leach
Callibaetis Eaton
Ephemerellidae
Ephemerella Walsh
Heptageniidae
Epeorus Eaton
Rhithrogena Eaton
Leptophlebiidae
Paraleptophlebia
Tricorythidae
Tricorythodes Ulmer
Odonata
Coenagrionidae
Enallagma Charpentier
Gomphidae
Plecoptera
Capniidae
Capnia Pictet
Isoperlidae
Isoperla Banks
Perlodidae
Isogenoides Klapalek
Coleoptera
Dytiscidae
Deronectes Sharp
Derovatellus Sharp
Oerodytes Seidlitz
Elmidae
Dubiraphia Sanderson
Microcyllopus
Zaitzevia Champion
Trichoptera
Brachycentridae
Brachycentrus pupae Curtis
Hydropsychidae
Hydropsyche Pictet
Hydroptilidae
Hydroptila Dalman
Limnephilidae
Grammotaulius Kolenati
Hesperophylax Banks
Limnephilus Leach
Lepidoptera
Pyralidae
Diptera
Diptera pupae
Diptera larvae (unidentified)
Ceratopodonidae
Culicidae

AMERICAN MEDICAL ASSOCIATION
PUBLISHED WEEKLY
CHICAGO, ILL., U.S.A.
Vol. 11, No. 1, January 1918
Subscription price, \$5.00 per annum in advance
Single copies, 15 cents
Entered as Second-Class Matter, October 3, 1917
Postpaid
Acceptance for mailing at special rate of postage provided for in Act of October 3, 1917
Authorized by Act of October 3, 1917
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APPENDIX C-12-1

Chironomidae
 Tanypodinae
 Conchapelopia
 Psectrotanypus
 Podonominae
 Boreochlus
 Diamesinae
 Diamesinae sp. 1
 Diamesa
 Monodiamesa
 Odontomesa
 Pottastia
 Pseudodiamesa
 Orthoclaadiinae
 Orthoclaadiinae sp. 2
 Orthoclaadiinae sp. 3
 Chaetocladius
 Corynoneura
 Cricotopus
 Cricotopus (Cricotopus)
 Cricotopus (Cricotopus) trifascia
 Cricotopus (Isocladius)
 Diplocladius
 Eukiefferiella
 Orthocladius
 Paracladius
 Parakiefferiella
 Parametriocnemus
 Paraphaenocladius
 Pseudosmittia
 Smittia
 Thienemanniella
 Chironominae
 Chironomus
 Cryptochironomus
 Harnischia
 Microtendipes
 Parachironomus
 Paracladopelma
 Paratendipes
 Phaenopsectra (Phaenopsectra)
 Polypedilium (tripodura grp)
 Pseudochironomus
 Stichtochironomus
 Cladotanytarsus
 Micropsectra
 Rheotanytarsus
 Dolichopodidae
 Hydrophorus Fallen

Empididea
 Clinocera Meigen
 Hemerodromia Meigen
 Muscidae
 Limnophora aquifrons Stein
 Limnophora discreta Stein
 Psychiodidae
 Percoma Walker
 Telmatascopeus Eaton
 Rhagionidae
 Atherix variegata Walker
 Simuliidae
 Arachnoidea
 Acari
 Stratiomyidae
 Euparyphus Gerstaecker
 Stratiomys Geoffrey
 Tabanidae
 Chrysops Meigen
 Tabanus Linnaeus
 Tipulidae
 Dicranota Zetterstedt
 Hexatoma Latreille
 Holorusia Loew
 Limnophila Macquart
 Ormosia Rondani
 Pedecia Latreille
 Arachnoidea
 Acari

APPENDIX C-12-2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES
APRIL 1975

APPENDIX C-12-2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES, APRIL 1975

SITE = 01

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE	235	145	18
ARTHROPODA			
ARACHNOIDEA			
ACARI			18
INSECTA			
COLEOPTERA			
DYTISCIDAE			
DERONECTES SP			
LARVAE			109
TRICHOPTERA			
LIANEPHILIDAE			
HESPEROPHYLAX SP			
LARVAE	18		18
DIPTERA			
TIPULIDAE			
UNIDENTIFIED			
LARVAE		18	
DICKANDIA SP			
LARVAE			36
PEDICIA SP			
LARVAE			36
CERATOPOGONIDAE			
UNIDENTIFIED			
LARVAE	36		344
CHIRONOMIDAE			
ORTHOCLADIINAE			
EUKIEFFERIELLA SP			
LARVAE	36		

2.4.5.211

APPENDIX C-12-2 (Continued)

SITE = 01

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCCLADIINAE			
PARAPHAENOCCLADIUS SP			
LARVAE	3258	724	54
PARAMETRIBCNEMUS SP			
LARVAE		109	453
PSEUDOSMITTIA SP			
LARVAE	36		
SMITTIA SP			
LARVAE		16	
ORTHOCCLADIINAE SP. 2			
LARVAE			54
STRATIOMYIDAE			
EUPARYPHUS SP			
LARVAE	54		833
STRATIOMYS SP			
LARVAE		18	36
DOLICHOPODIDAE			
HYDROPHUS SP			
LARVAE		18	

2.4.5.212

APPENDIX C-12-2 (Continued)

SITE = 02

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
NEMATODA		54	
ANNELIDA			
OLIGOCHAETA			
AECLOSOMATIDAE			
UNIDENTIFIED			
-----	18		
HAPLOTAXIDA			
HAPLOTAXIDAE			
UNIDENTIFIED			
-----			36
ENCHYTRAEIDAE			
NAIDIDAE			
NAIS SP			
-----			36
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
BAETIS SP			

LARVAE	54	18	18
PLECOPTERA			
EUMECOPTERA			
CAPNIIDAE			
CAPNIA SP			

LARVAE		18	
COLEOPTERA			
DYTISCIDAE			
DREUDYTES SP			

LARVAE	18		
TRICHOPTERA			
LIMNephilidae			
HESPEROPHYLAX SP			

LARVAE	109	16	16

2.4.5.213

APPENDIX C-12-2 (Continued)

SITE = U2

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
TIPULIDAE			
UNIDENTIFIED			
LARVAE		13	
ORMBOSIA SP			
LARVAE		18	
DICRANOTA SP			
LARVAE		18	
HOLURUSIA SP			
LARVAE	303	326	290
CERATOPOGONIDAE			
UNIDENTIFIED			
LARVAE	54		18
CHIRONOMIDAE			
UNIDENTIFIED			
PUPAE		36	18
PODOBOLINAE			
BREDOCHLUS SP			
LARVAE		54	
DIAMESINAE			
DIAMESA SP			
LARVAE	2643	4036	1412
ORTHOCCLADIINAE			
CORYNONEURA SP			
LARVAE	72	145	

2.4.5.214

APPENDIX C-12-2 (Continued)

SITE = 02

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON

REP A

REP B

REP C

ARTHROPODA

INSECTA

DIPTERA

CHIRONOMIDAE

ORTHOCLADIINAE

EUKIEFFERIELLA SP

LARVAE

507

91

109

ORTHOCLADIUS SP

LARVAE

36

91

18

PARAPHAENOCCLUS SP

LARVAE

36

272

18

PARAMETRICHNEUS SP

LARVAE

181

54

18

PSEUDOSMITTIA SP

LARVAE

36

CHIRONOMINAE

PHAENOPSECTRA PHAENOPSECTRA

LARVAE

54

72

MICROPSECTRA SP

LARVAE

91

145

STRATIOMYIDAE

STRATIOMYS SP

LARVAE

18

ANTHOMYIIDAE

LIMNOPHORA DISCRETA

LARVAE

18

2.4.5.215

APPENDIX C-12-2 (Continued)

SITE = 03

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
NEMATODA		235	36
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE	18		18
TUBIFICIDAE			
LIMNODRILUS UDEKENTIANUS	18		
NAIDIDAE			
NAIS SP	19		18
NAIS ELINGUIS			18
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
LARVAE	109		18
BAETIS SP			
LARVAE	217	923	145
ODONATA			
ZYGOPTERA			
COENAGRIONIDAE			
UNIDENTIFIED			
LARVAE		18	
TRICHOPTERA			
LYNNEPHILIDAE			
HESPEROPHYLAX SP			
LARVAE	36	18	

2.4.5.216

APPENDIX C-12-2 (Continued)

SITE = 03

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
UNIDENTIFIED			

PUPAE		18	
TIPULIDAE			
DRYOSIA SP			

LARVAE			18
DICRANOTA SP			

LARVAE	36	18	
HOLORUSIA SP			

LARVAE	543	54	54
CERATOPOGONIDAE			
UNIDENTIFIED			

LARVAE	163	1140	36
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	54	434	36
TANYPODINAE			
CONCHAPELOPIA SP			

LARVAE		253	
PSECTROTANYPUS SP			

LARVAE	181	127	72
DIAMESINAE			
DIAMESA SP			

LARVAE		127	91

2.4.5.217

APPENDIX C-12-2 (Continued)

SITE = 03

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE		253	18
CORYMONEURA SP			

LARVAE			18
DIPLOCLADIUS SP			

LARVAE	91	507	54
EUKIEFFERIELLA SP			

LARVAE			145
ORTHOCLADIUS SP			

LARVAE	54	253	54
PARAPHAENOCCLADIUS SP			

LARVAE	181	905	127
PSEUDOSMITTIA SP			

LARVAE	36		
CHIRONOMINAE			
PARACHIRONOMUS SP			

LARVAE			18
PARATENDIPES SP			

LARVAE	36		

2.4.5.218

APPENDIX C-12-2 (Continued)

SITE = 03

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
CHIRONOMINAE			
PHAENOPSECTRA PHAENOPSECTRA			

LARVAE	36		
MICROPSECTRA SP			

LARVAE	2190	10281	308
SIMULIIDAE			
UNIDENTIFIED			

LARVAE	72	217	91
STRATIOMYIDAE			
EUPARYPHUS SP			

LARVAE		72	
STRATIOMYS SP			

LARVAE	18		
ANTHOMYIIDAE			
LIMNOPHORA AEQUIFRONS			

LARVAE	109	91	
LIMNOPHORA DISCRETA			

LARVAE			18

APPENDIX C-12-2 (Continued)

SITE = 04

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
NEMATODA	344	272	163
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE	127	36	18
NAIDIDAE			
VAIS SP			
-----	109	199	127
VAIS ELINGUIS			
-----	18		
ARTHROPODA			
INSECTA			
COLLEMBOLA			18
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			

LARVAE	3873		2570
BAETIS SP			

LARVAE	507	9919	1774
PLECOPTERA			
EJHOLOGNATHA			
CAPNIIDAE			
UNIDENTIFIED			

LARVAE	18		
CAPNIA SP			

LARVAE		18	

2.4.5.220

APPENDIX C-12-2 (Continued)

SITE = J4

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
PLECOPTERA			
SYSTELLOGNATHA			
PERLODIDAE			
ISOPERLA SP			

LARVAE		36	
DIPTERA			
UNIDENTIFIED			

PUPAE		18	
TIPULIDAE			
PEDICIA SP			

LARVAE		18	
HOLURUSIA SP			

LARVAE		36	
CERATOPOGONIDAE			
UNIDENTIFIED			

LARVAE	18	290	54
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	290	579	615
TANYPODIDAE			
PSECTROTANYPUS SP			

LARVAE	54	670	
DIAMESINAE			
DIAMESINAE SP. 1			

LARVAE	434		308
DIAMESA SP			

LARVAE	253	471	253

2.4.5 221

APPENDIX C-12-2 (Continued)

SITE = 04

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON

REP A REP B REP C

ARTHROPODA

INSECTA

DIPTERA

CHIRONOMIDAE

ORTHOCCLADIINAE

CORYMONEURA SP

LARVAE

109

DIPLOCLADIUS SP

LARVAE

36

54

EUKIEFFERIELLA SP

LARVAE

199

235

362

ORTHOCCLADIUS SP

LARVAE

326

634

308

PARAPHAENOCCLADIUS SP

LARVAE

434

272

688

PARAMETRICNEMUS SP

LARVAE

1014

362

2987

PSEUDOSMITTIA SP

LARVAE

54

THIENEMANNIELLA SP

LARVAE

36

54

CHIRONOMINAE

PARATENDIPES SP

LARVAE

36

2.4.5.222

APPENDIX C-12-2 (Continued)

SITE = 04

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
CHIRONOMINAE			
PHAENOPSECTRA PHAENOPSECTRA			

LARVAE	54	127	
MICROPSECTRA SP			

LARVAE	54	199	54
SIMULIIDAE			
UNIDENTIFIED			

LARVAE	3928	3584	3783
UNIDENTIFIED			

PUPAE		4543	
SIMULIJA SP			

LARVAE			1394
STRATIOMYIDAE			
STRATIOMYS SP			

LARVAE		597	
EMPIDIDAE			
CLITOCERA SP			

LARVAE			18
HEMERODROMIA SP			

LARVAE			36
ANTHOMYIIDAE			
LIMNOPHORA AEGUIFRONS			

LARVAE	18	109	18

2.4.5.223

APPENDIX C-12-2 (Continued)

SITE = 05

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
PLATYHELMINTHES			
TURBELLARIA			
TRICLADIDA			
UNIDENTIFIED		18	
NEMATODA	3638	12851	5756
MOLLUSCA			
GASTROPODA			
BASOMMATOPHORA			
PHYSIDAE			
PHYSA SP	36	91	
ANNELIDA			
HIRUDINEA			
RHYNCHOBDELLIDA			
GLOSSIPHONIIDAE			
HELOBDELLA STAGNALIS	18	18	
OLIGOCHAETA			
HAPLOTAXIDA			
TUBIFICIDAE			
ILYODRILUS TEMPLETONI	3964	2335	11204
LIMNODRILUS SP. 1	163		
LIMNODRILUS CLAPAREDEIANUS			
TYPICAL	163	290	
LIMNODRILUS HOFFMEISTERI			
TYPICAL	326	290	815
LIMNODRILUS SPIRALIS	163		

APPENDIX C-12-2 (Continued)

SITE = 05

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ANNELIDA			
OLIGOSCHAETA			
HAPLOTAXIDA			
TUBIFICIDAE			
LIMNODRILUS UDEKEMIANUS	796	290	815
RHYACODRILINAE SP	326		
TUBIFEX TUBIFEX	326		1086
IMMATURES WITH CAP. CHAETAE SP	15874	18643	20779
IMMATURES W/O CAP. CHAETAE SP	25231	18933	22136
ARTHROPODA			
ARACHNIDEA			
ACARI			18
CRUSTACEA			
AMPHIPODA			
TALITRIDAE			
HYALELLA AZTECA	977	163	670
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
LARVAE	109		18
BAETIS SP			
LARVAE	18	72	54

2.4.5.225

APPENDIX C-12-2 (Continued)

SITE = 05

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
ODONATA			
ZYGOPTERA			
COENAGRIONIDAE			
UNIDENTIFIED			

LARVAE	35	109	18
ENALLAGRA SP			

LARVAE	18		
COLEOPTERA			
DYTISCIDAE			
DERONECTES SP			

LARVAE	18		
TRICHOPTERA			
HYDROPSYCHIDAE			
HYDROPSYCHE SP			

LARVAE	18		
HYDROPTILIDAE			
UNIDENTIFIED			

LARVAE		941	
HYDROPTILA SP			

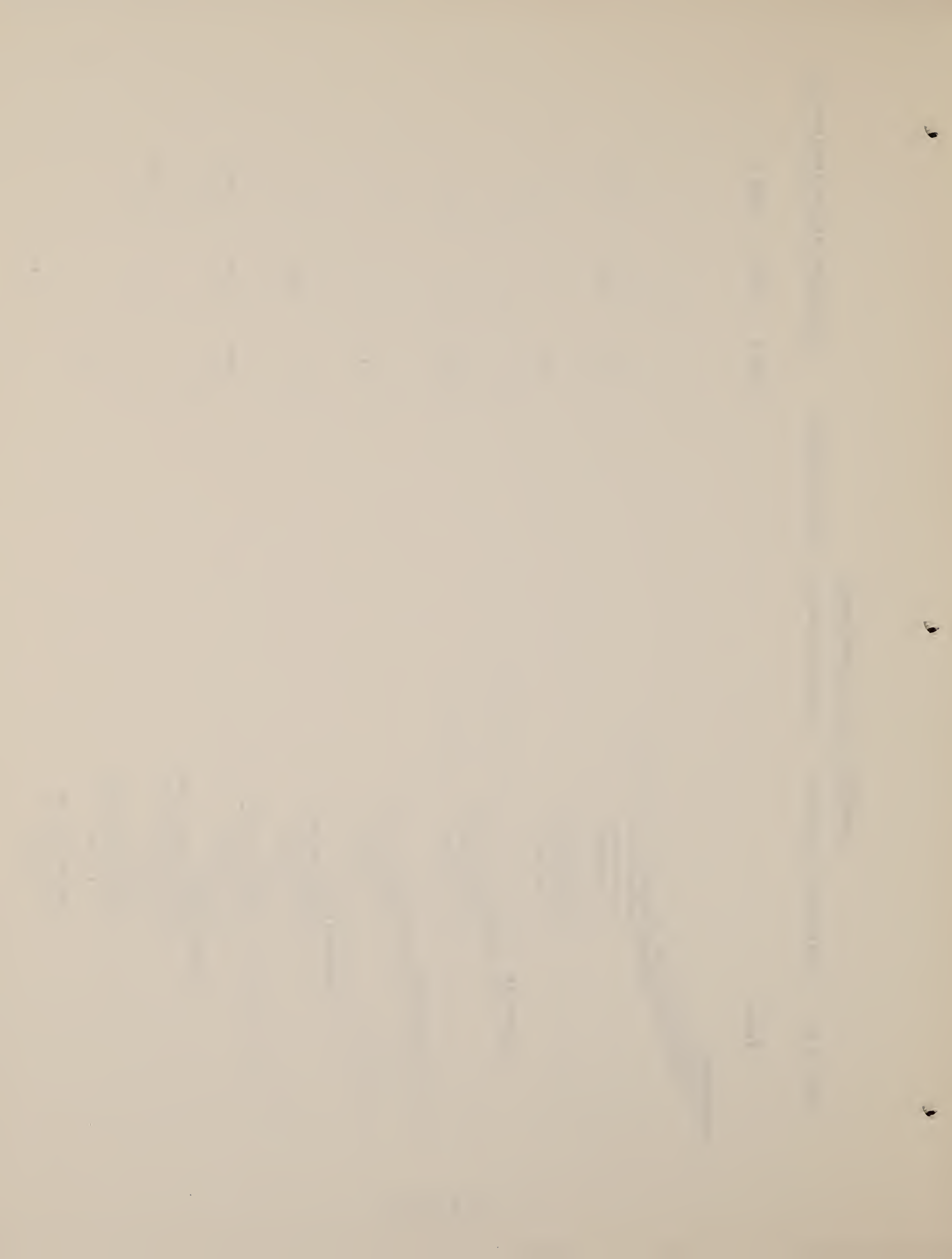
LARVAE	959	163	308
LIMNephilidae			
GRAMMOTAULIUS SP			

LARVAE			18
HESPEROPHYLAX SP			

LARVAE	18		
LIMNephilus SP			

LARVAE		18	

2.4.5.226



APPENDIX C-12-2 (Continued)

SITE = 05

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON

REP A

REP B

REP C

ARTHROPODA
INSECTA
DIPTERA

UNIDENTIFIED

PUPAE

525

TIPULIDAE

HOLURUSIA SP

LARVAE

18

18

PSYCHODIDAE

TELMATOSCOPIUS SP

LARVAE

16

PERICOMA SP

ADULTS

18

CERATOPOGONIDAE

UNIDENTIFIED

LARVAE

6281

15747

8018

CHIRONOMIDAE

UNIDENTIFIED

PUPAE

1068

760

TANYPODINAE

CONCHAPELOPIA SP

LARVAE

145

1177

109

PSECTROTANYPUS SP

LARVAE

724

1466

217

DIAMESINAE

DIAMESINAE SP. 1

LARVAE

109

2.4.5.227

APPENDIX C-12-2 (Continued)

SITE = 05

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE	1593	3222	434
CHAETOCCLADIUS SP			

LARVAE			217
CORYNOVEURA SP			

LARVAE		290	
EUKIEFFERIELLA SP			

LARVAE	869	2045	109
ORTHOCLADIUS SP			

LARVAE	8833	12000	6082
PAPACCLADIUS SP			

LARVAE		887	
PARAKIEFFERIELLA SP			

LARVAE		579	
PARAPHAENDCLADIUS SP			

LARVAE		290	
CHIRONOMINAE			
CRYPTOCHIRONOMUS SP			

LARVAE	145	1177	217

2.4.5.228

APPENDIX C-12-2 (Continued)

SITE = 05

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
CHIRONOMINAE			
MICROPSECTRA SP			

LARVAE	3765	4091	3258
RHEOTANYTARSUS SP			

LARVAE		887	
SIMULIIDAE			
UNIDENTIFIED			

LARVAE	11331	7512	4869
TABANIDAE			
UNIDENTIFIED			

LARVAE			18
TABANUS SP			

LARVAE		18	
EMPIDIDAE			
CLINOCERA SP			

LARVAE			109
HEMERODROMIA SP			

LARVAE	272	344	
ANTHOMYIIDAE			
LIMNOPHORA AEQUIFRONS			

LARVAE		18	
LIMNOPHORA DISCRETA			

LARVAE			36

APPENDIX C-12-2 (Continued)

SITE = 07

SITE DESC = CN TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
NEMATODA		18	
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE	127	127	36
ARTHROPODA			
CRUSTACEA			
OSTRACODA		362	
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
LARVAE	54	54	
BAETIS SP			
LARVAE	54		
TRICHOPTERA			
HYDROPTILIDAE			
HYDROPTILA SP			
LARVAE	18		
DIPTERA			
TIPULIDAE			
DUMOSIA SP			
LARVAE			54
CERATOPOGONIDAE			
UNIDENTIFIED			
LARVAE	109	326	36
CHIRONOMIDAE			
TANYPODINAE			
CONCHAPELOPIA SP			
LARVAE			18

2.4.5.230

APPENDIX C-12-2 (Continued)

SITE = 07

SITE DESC = DN TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCCLADIINAE			
UNIDENTIFIED			
LARVAE	18		54
CORYNOCEURA SP			
LARVAE		18	
ORTHOCCLADIUS SP			
LARVAE			54
PARAPHAENOCCLADIUS SP			
LARVAE	18	54	109
PARAMETRIOCHEMUS SP			
LARVAE		36	18
PSEUDOSHITIA SP			
LARVAE	36	54	
ORTHOCCLADIINAE SP. 2			
LARVAE	36		36
ORTHOCCLADIINAE SP. 3			
LARVAE			18
CHIRONOMINAE			
MICROPSECTRA SP			
LARVAE	18		

2.4.5.231

APPENDIX C-12-2 (Continued)

SITE = 07

SITE DESC = ON TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON

REP A

REP B

REP C

ARTHROPODA

INSECTA

DIPTERA

SIMULIIDAE

UNIDENTIFIED

LARVAE

18

2.4.5.232

APPENDIX C-12-2 (Continued)

SITE = 08

SITE DESC = UN TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
NEMATODA			
ANVELIDA		18	36
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE			
TUBIFICIDAE	36	72	18
ILYODRILUS TEMPLETONI			

LIMNODRILUS SP. 1			18

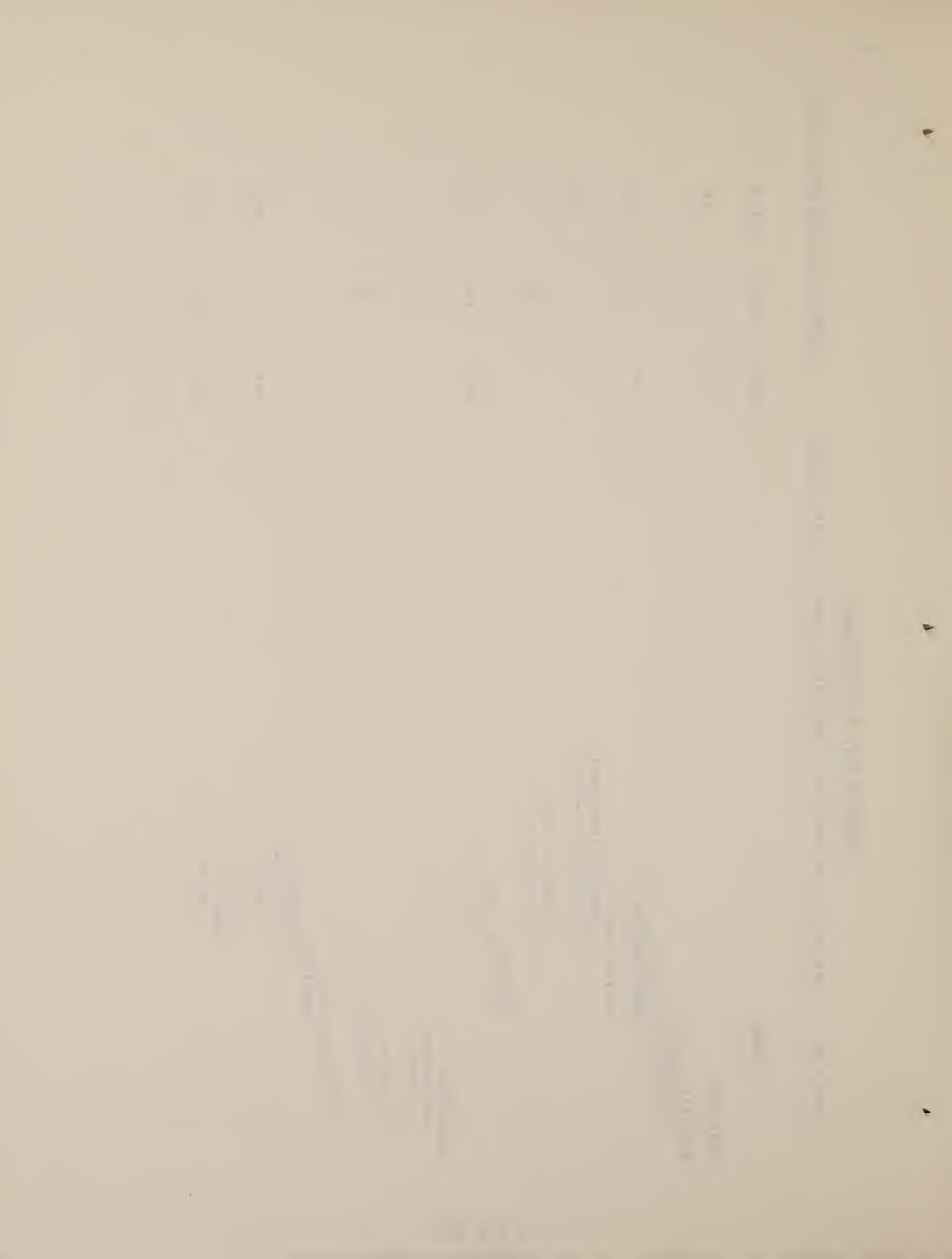
NAIDIDAE		18	
NAIS SP			

ARTHROPODA	145	181	91
ARACHNOIDEA			
ACARI			
CRUSTACEA		18	
OSTRACODA			
INSECTA		36	
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			

LARVAE	977		398
BAETIS SP			

LARVAE	326	1502	434

2.4.5.233



APPENDIX C-12-2 (Continued)

SITE = 06

SITE DESC = ON TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
HEPTAGENIIDAE			
EPEGRUS SP			

LARVAE	72		18
RHITHROSENA SP			

LARVAE		18	
PLECOPTERA			
SYSTELLUGNATHA			
PERLODIDAE			
ISOPERLA SP			

LARVAE	109	308	145
DIPTERA			
UNIDENTIFIED			

PUPAE		54	
TIPULIDAE			
HOLURUSIA SP			

LARVAE	18		
CERATOPISGONIDAE			
UNIDENTIFIED			

LARVAE	489	109	127
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	18		18
DIAPYCNIDAE			
DIAPYCNIS SP			

LARVAE	181	217	
ORTHOCLADIIDAE			
UNIDENTIFIED			

LARVAE		72	145

2.4.5.234

APPENDIX C-12-2 (Continued)

SITE = 08

SITE DESC = UN TRACT C-A

COLLECTION METHOD = ELLIPSE SUBBER

CONVERSION FACTOR APPLIED= 18.1

TAXON

REP A

REP B

REP C

ARTHROPODA

INSECTA

DIPTERA

CHIRONOMIDAE

ORTHOCLADIINAE

EUKIEFFERIELLA SP

LARVAE

54

ORTHOCLADIUS SP

LARVAE

54

145

36

PARAPHAENOCCLADIUS SP

LARVAE

181

2570

127

PARAMETRIONEMUS SP

LARVAE

5267

2769

THIENEMANNIELLA SP

LARVAE

54

181

EMPIDIDAE

HEMERODROMIA SP

LARVAE

36

54

36

ANTHOMYIIDAE

LIMNOPHORA DISCRETA

LARVAE

18

18

18

2.4.5.235

APPENDIX C-12-2 (Continued)

SITE = 09

SITE DESC = DN TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
NEMATODA	253	344	54
ANNELIDA			
HIRUDINEA			
RHYNCHOBDELLIDA			
GLOSSIPHONIIDAE			
HELOBDELLA STAGNALIS			
-----		18	
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE	634	778	1756
TUBIFICIDAE			
IMMATURES W/O CAP. CHAETAE SP			
-----		163	
NAIDIDAE			
NAIS SP			
-----	11530	14951	9086
ARTHROPODA			
CRUSTACEA			
OSTRACODA		72	
INSECTA			
COLLEMBOLA			18
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			

LARVAE	1068		1014
BAETIS SP			
-----		869	923
LARVAE			

2.4.5.236

APPENDIX C-12-2 (Continued)

SITE = 09

SITE DESC = ON TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
EPHEMERELLIDAE			
EPHEMERELLA SP			

LARVAE		18	
TRICORYTHIDAE			
TRICORYTHODES SP			

LARVAE		18	
TRICHOPTERA			
HYDROPSYCHIDAE			
HYDROPSYCHE SP			

LARVAE		18	
DIPTERA			
UNIDENTIFIED			

PUPAE		851	
TIPULIDAE			
HOLORUSIA SP			

LARVAE	18		
CERATOPOSONIDAE			
UNIDENTIFIED			

LARVAE	163	109	109
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	977		634
TANYPODINAE			
CUNCHAPELOPIA SP			

LARVAE		91	
DIAMETINAE			
DIAMETSA SP			

LARVAE			

2.4.5.237

APPENDIX C-12-2 (Continued)

SITE = 09

SITE DESC = ON TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE	91	290	199
DIPLOCLADIUS SP			

LARVAE	91		
EUKIEFFERIELLA SP			

LARVAE	1122	796	1303
ORTHOCLADIUS SP			

LARVAE	1792	1792	1792
PARAPHAENDCLADIUS SP			

LARVAE	3475	3673	2335
PARAMETRIONEMUS SP			

LARVAE	2444	2769	199
THIENEMANNIELLA SP			

LARVAE		91	72
CHIRONOMINAE			
MICROPSECTRA SP			

LARVAE		91	
SIMULIIDAE			
UNIDENTIFIED			

LARVAE		54	36

2.4.5.238

APPENDIX C-12-2 (Continued)

SITE = 09

SITE DESC = ON TRACT C-4

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
EMPIDIDAE			
HEMERODROMIA SP			

LARVAE	54	18	

APPENDIX C-12-2 (Continued)

SITE = 13

SITE DESC = NEAR TRACT C-A COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

2.4.5.240

TAXON	REP A	REP B	REP C
NEMATODA	217	360	127
ANNELEIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE			72
TUBIFICIDAE			
IMMATURES WITH CAP. CHAETAE SP			72
IMMATURES W/O CAP. CHAETAE SP			145
NAIDIDAE			
NAIS SP	10606	36490	6987
ARTHROPODA			
ARACHNOIDEA			
ACARI		18	
CRUSTACEA			
OSTRACODA		1339	
AMPHIPODA			
TALITRIDAE			
HYALELLA AZTECA		18	
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
LARVAE	887		434

APPENDIX C-12-2 (Continued)

SITE = 13

SITE DESC = NEAR TRACT C-A COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON

REP A

REP B

REP C

ARTHROPODA

INSECTA

EPHEMEROPTERA

BAETIDAE

BAETIS SP

LARVAE

887

3023

2824

ODONATA

ZYGOPTERA

COENAGRIONIDAE

UNIDENTIFIED

LARVAE

18

PLECOPTERA

SYSTELLOGNATHA

PERLOUIDAE

ISOPERLA SP

LARVAE

127

91

54

TRICHOPTERA

LIMNephilidae

UNIDENTIFIED

LARVAE

18

DIPTERA

UNIDENTIFIED

PUPAE

1339

TIPULIDAE

HOLGRUSIA SP

LARVAE

18

CULICIDAE

UNIDENTIFIED

PUPAE

54

18

CERATOPESONIDAE

UNIDENTIFIED

LARVAE

163

833

253

2.4.5.241

APPENDIX C-12-2 (Continued)

SITE = 13

SITE DESC = NEAR TRACT C-A COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
TANYPODINAE			
CONCHAPELOPIA SP			

LARVAE	652	543	181
PSECTROTANYPUS SP			

LARVAE	181		91
DIAMESINAE			
DIAMESINAE SP. 1			

LARVAE	91	127	
DIAMESA SP			

LARVAE	1792	1213	1466
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE	181		561
DIPLOCLADIUS SP			

LARVAE	91		
EUKIEFFERIELLA SP			

LARVAE	1412	941	362
ORTHOCLADIUS SP			

LARVAE	2063	6190	3602
PARACLADIUS SP			

LARVAE		127	

2.4.5.242

APPENDIX C-12-2 (Continued)

SITE = 13

SITE DESC = NEAR TRACT C-A COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON

REP A REP B REP C

ARTHROPODA

INSECTA

DIPTERA

CHIRONOMIDAE

ORTHOCLADIINAE

PARAPHAENOCCLADIUS SP

LARVAE

1321 398 1104

PARAETRIDCNEMUS SP

LARVAE

1701 272 2027

CHIRONOMINAE

CHIRONOMINI SP

LARVAE

127

PHAENOPSECTRA PHAENOPSECTRA

LARVAE

91 3493

SIMULIIDAE

UNIDENTIFIED

LARVAE

18

STRATIOMYIDAE

EUPARYPHUS SP

LARVAE

54

EMPIDIDAE

HEMERODROMIA SP

LARVAE

127 54

ANTHOMYIIDAE

LYNPHORA AEGUIFRONS

LARVAE

18

LYNPHORA DISCRETA

LARVAE

18

2.4.5.243

APPENDIX C-12-2 (Continued)

SITE = 14

SITE DESC = NEAR TRACT C-A COLLECTION METHOD = EKMAN DREDGE

CONVERSION FACTOR APPLIED = 44.4

TAXON	REP A	REP B	REP C
NEMATODA	400	178	178
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEDIAE	755		178
TUBIFICIDAE			
IMMATURES WITH CAP. CHAETAE SP		44	

NAIDIDAE			
NAIS SP	8303	178	710

NAIS ELINGUIS			44

ARTHROPODA			
INSECTA			
UNIDENTIFIED	44	6616	

EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			

LARVAE	44		

CALLIBAETIS SP			

LARVAE	2442		1110
ODONATA			
ZYGOPTERA			
COENAGRIONIDAE			
UNIDENTIFIED			

LARVAE			44

2.4.5.244

APPENDIX C-12-2 (Continued)

SITE = 14

SITE DESC = NEAR TRACT C-A COLLECTION METHOD = EKMAN DREDGE

CONVERSION FACTOR APPLIED = 44.4

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
TRICHOPTERA			
HYDROPTILIDAE			
HYDROPTILA SP			

LARVAE	44		
DIPTERA			
UNIDENTIFIED			

PUPAE		8091	
CULICIDAE			
UNIDENTIFIED			

PUPAE			44
CERATOPOGONIDAE			
UNIDENTIFIED			

LARVAE	1376	178	311
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	3685		1909
TANYPODINAE			
CONCHAPELOPIA SP			

LARVAE	13764	8347	3552
PSECTROTANYPUS SP			

LARVAE		6438	1066
DIAMESINAE			
DIAEISA SP			

LARVAE			355
ORTHOCLOADINAE			
ORTHOCLODIUS SP			

LARVAE	5816	2575	710

2.4.5.245

APPENDIX C-12-2 (Continued)

SITE = 14

SITE DESC = NEAR TRACT C-A COLLECTION METHOD = EKMAN DREDGE

CONVERSION FACTOR APPLIED = 44.4

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLADIINAE			
PARAPHAENOCADIUS SP			

LARVAE	710		
CHIRONOMINAE			
CHIRONOMUS SP			

LARVAE		622	355
PHAENOPSECTRA PHAENOPSECTRA			

LARVAE	710	1288	1066
STICTOCHIRONOMUS SP			

LARVAE		622	
MICROPSECTRA SP			

LARVAE	53635	43690	28594
SIMULIIDAE			
UNIDENTIFIED			

LARVAE		133	
EMPIDIDAE			
CLINOCERA SP			

LARVAE	133		

2.4.5.246

APPENDIX C-12-2 (Continued)

SITE = 19

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
NEMATODA	887	887	815
MOLLUSCA			
GASTROPODA			
BASOMMATOPHORA			
LYMAEIDAE			
LYMAEA SP			
	36		36
ANNELIDA			
HIRUDINEA			
RHYNCHODELLIDA			
GLOSSIPHONIIDAE			
HELMODELLA STAGNALIS			
	18		
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEDIAE		235	652
TUBIFICIDAE			
LIMNODRILUS HOFFMEISTERI			
TYPICAL			18
LIMNODRILUS JOCKEYIANUS		72	127
IMMATURES WITH CAP. CHAETAE SP	11240	778	6480
IMMATURES W/O CAP. CHAETAE SP	6027	525	3077
ARTHROPODA			
ARACHNIDEA			
ACARI	1593	833	543

2.4.5.247

APPENDIX C-12-2 (Continued)

SITE = 19

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
CRUSTACEA			
OSTRACODA		742	
AMPHIPODA			
TALITRIDAE			
HYALELLA AZTECA			
	109	91	72
INSECTA			
COLLEMBOLA		18	
EPHEMEROPTERA			
BAETIDAE			
BAETIS SP			
LARVAE		1285	18
EPHEMERELLIDAE			
EPHEMERELLA SP			
LARVAE			18
TRICORYTHIDAE			
TRICORYTHODES SP			
LARVAE			18
ODONATA			
ZYGOPTERA			
COENAGRIONIDAE			
UNIDENTIFIED			
LARVAE	145	72	18
ENALLAGMA SP			
LARVAE			54
COLEOPTERA			
DYTISCIDAE			
DERONECTES SP			
LARVAE	54		72

2.4.5.248

APPENDIX C-12-2 (Continued)

SITE = 19

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
COLEOPTERA			
DYTISCIDAE			
DERIVATELLUS SP			
LARVAE		54	
ELMIDAE			
UNIDENTIFIED			
LARVAE	18		
MICROCYLLIDAE			
LARVAE		18	
TRICHOPTERA			
HYDROPTILIDAE			
HYDROPTILUS SP			
LARVAE	235		72
LIMNephilidae			
GRAMMOTAULIUS SP			
LARVAE			54
HESPEROPHYLAX SP			
LARVAE			18
DIPTERA			
UNIDENTIFIED			
LARVAE	18		18
UNIDENTIFIED			
PUPAE		615	
PSYCHODIDAE			
TELMATOSCOPIUS SP			
LARVAE		18	

2.4.5.249

APPENDIX C-12-2 (Continued)

SITE = 19

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CERATOPOGONIDAE			
UNIDENTIFIED			

LARVAE	3168	2353	2914
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	326		471'
TANYPODINAE			
CENCHAPELOPIA SP			

LARVAE		181	163
DIAMESINAE			
DIAMESA SP			

LARVAE		181	
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE	760	1104	163
CRICOTOPUS CRICOTOPUS			

LARVAE		1104	
CRICOTOPUS ISOCADIUS			

LARVAE		1104	
EUKIEFFERIELLA SP			

LARVAE	3801	1647	1104
ORTHOCLADIUS SP			

LARVAE	18987	4416	8417

2.4.5.250

APPENDIX C-12-2 (Continued)

SITE = 19

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLADIINAE			
PARAPHAENOCLEDIUS SP			

LARVAE	13666	7711	6027
ORTHOCLADIINAE SP. 2			

LARVAE			163
CHIRONOMINAE			
PARATENDIPES SP			

LARVAE			796
PSEUDOCHEIRONOMUS SP			

LARVAE	380		
MICROPSECTRA SP			

LARVAE		181	1104
SIMULIIDAE			
UNIDENTIFIED			

LARVAE	58373	36110	51730
UNIDENTIFIED			

PUPAE		2534	1014
SIMULIUM SP			

LARVAE	2263		
SIMULIUM SP			

PUPAE			2425

2.4.5.251

APPENDIX C-12-2 (Continued)

SITE = 19

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
STRATIOMYIDAE			
EUPARYPHUS SP			

LARVAE	36	18	
TABANIDAE			
TABANUS SP			

LARVAE		36	
CHRYSOPS SP			

LARVAE	109	54	217
EMPIDIDAE			
CLINOcera SP			

LARVAE	36	36	

2.4.5.252

APPENDIX C-12-2 (Continued)

SITE = 20

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
NEMATODA	109	217	109
ANVELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
TUBIFICIDAE			
UNIDENTIFIED SP. 1		36	
LIMNODRILUS SP. 1	36		18
LIMNODRILUS HOFFMEISTERI			
TYPICAL	18	18	
IMMATURES WITH CAP. CHAETAE SP		91	18
IMMATURES W/O CAP. CHAETAE SP	362	815	471
ARTHROPODA			
ARACHNIDEA			
ACARI	344	145	163
CRUSTACEA			
OSTRACODA		18	
INSECTA			
ODONATA			
ZYGOPTEKA			
COENAGRIONIDAE			
UNIDENTIFIED			
LARVAE	18		18

2.4.5.253

APPENDIX C-12-2 (Continued)

SITE = 20

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
COLEOPTERA			
DYTISCIDAE			
DERIVATELLUS SP			

LARVAE		18	
DIPTERA			
UNIDENTIFIED			

PUPAE		145	
CERATOPOGONIDAE			
UNIDENTIFIED			

LARVAE	3095	1774	2027
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	398		145
ORTHOCLADIIDAE			
UNIDENTIFIED			

LARVAE		344	91
CRICHTOPUS SP			

LARVAE		217	127
CRICHTOPUS CRICHTOPUS			

LARVAE	2787		1158
EUKIEFFERIELLA SP			

LARVAE	91	127	163
ORTHOCLADIUS SP			

LARVAE	4887	3294	2371

2.4.5.254

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APPENDIX C-12-2 (Continued)

SITE = 20

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLADIINAE			
PARAPHAENOCCLADIUS SP			

LARVAE	507	253	253
CHIRONOMINAE			
CRYPTOCHIRONOMUS SP			

LARVAE		36	
SIMULIIDAE			
UNIDENTIFIED			

LARVAE	1430	1629	2226
UNIDENTIFIED			

PUPAE		91	
SIMULIUM SP			

PUPAE			109
SIMULIUM ARGUS			

LARVAE	91		

2.4.5.255

APPENDIX C-12-2 (Continued)

SITE = 21

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
NEMATODA	54	72	72
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE			18
TUBIFICIDAE			
LIMNODRILUS UDEHEMIANUS			18
IMMATURES WITH CAP. CHAETAE SP	18		
ARTHROPODA			
ARACHNIDEA			
ACARI	163		54
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
LARVAE		18	
PLECOPTERA			
UNIDENTIFIED			
LARVAE		18	
DIPTERA			
UNIDENTIFIED			
PUPAE		561	
TIPULIDAE			
ORYSIA SP			
LARVAE			54

2.4.5.256

APPENDIX C-12-2 (Continued)

SITE = 21

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CERATOPOGONIDAE			
UNIDENTIFIED			

LARVAE	543	416	217
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	434		253
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE		308	163
CRICOTOPUS SP			

LARVAE	199		326
CRICOTOPUS CRICOTOPUS			

LARVAE	615	489	1358
CRICOTOPUS ISOCLADIUS			

LARVAE	72		54
EUKIOFFERIELLA SP			

LARVAE	272	217	434
ORTHOCLADIUS SP			

LARVAE	5575	3222	1629
PARAPHAENOCCLADIUS SP			

LARVAE	72	91	54

2.4.5.257

APPENDIX C-12-2 (Continued)

SITE = 21

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
SIMULIIDAE			
UNIDENTIFIED			

LARVAE	996	1430	1267

APPENDIX C-12-2 (Continued)

SITE = 22

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
NEMATODA	127	54	145
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE			18
TUBIFICIDAE			
UNIDENTIFIED SP. 1			
-----	18		36
LIMNODRILUS SP			
-----		344	507
LIMNODRILUS SP. 1			
-----	1032		
LIMNODRILUS HOFFMEISTERI			

TYPICAL	36	36	91
LIMNODRILUS UDEKEMIANUS			
-----	18		
TUBIFEX TUBIFEX			
-----	18		18
IMMATURES WITH CAP. CHAETAE SP			
-----	308	54	217

2.4.5.259



APPENDIX C-12-2 (Continued)

SITE = 22

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
TUBIFICIDAE			
IMMATURES W/O CAP. CHAETAE SP			
-----	1502	724	1321
NAIDIDAE			
NAIS SP			
-----	36		
NAIS BENNINGI			
-----			18
LUMBRICULIDA			
LUMBRICULIDAE			
UNIDENTIFIED			
-----	16	36	
ARTHROPODA			
ARACHNIDEA			
ACARI			
-----	16		18
CRUSTACEA			
AMPHIPODA			
TALITRIDAE			
HYALELLA AZTECA			
-----		18	
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
-----			18
LARVAE			
EPHEMERELLIDAE			
EPHEMERELLA SP			

LARVAE	18		
PODOPATA			
ANISOPTERA			
GOMPHIDAE			
UNIDENTIFIED			
-----			18
LARVAE			

2.4.5.260

APPENDIX C-12-2 (Continued)

SITE = 22

SITE DFSC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
UNIDENTIFIED			
PUPAE		109	
CERATOPOGONIDAE			
UNIDENTIFIED			
LARVAE	272	19	91
CHIRONOMIDAE			
UNIDENTIFIED			
PUPAE	308	127	253
TANYPODINAE			
CONCHAPELOPIA SP			
LARVAE	72		
DIALESINAE			
PSEUDODIALESA SP			
LARVAE		36	
ORTHOCLADIINAE			
UNIDENTIFIED			
LARVAE		91	
CRICOTOPUS SP			
LARVAE	217		
CRICOTOPUS CRICOTOPUS			
LARVAE		579	253
EUKIEFFERIELLA SP			
LARVAE	72	54	

2.4.5.261

APPENDIX C-12-2 (Continued)

SITE = 22

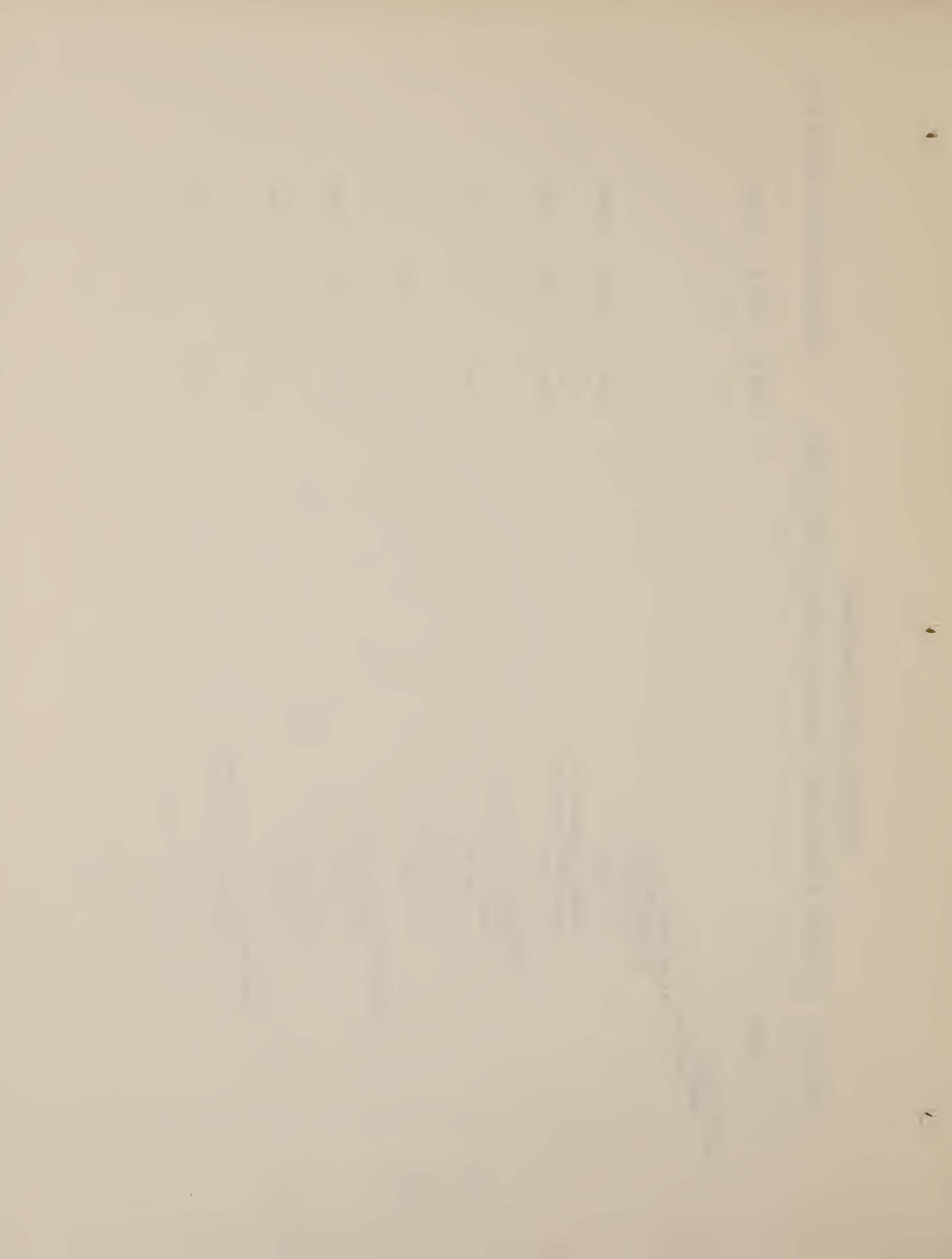
SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCCLADIINAE			
ORTHOCCLADIUS SP			
LARVAE	5068	1285	3946
PARAPHAENDCLADIUS SP			
LARVAE	1303	833	1973
CHIRONOMINAE			
STICTOCHIRONOMUS SP			
LARVAE	434		127
MICROPSECTRA SP			
LARVAE		36	
SIMULIIDAE			
UNIDENTIFIED			
LARVAE	127	109	290
SIMULIUM SP			
LARVAE			18
ANTHOMYIIDAE			
LYMPHODRA AEQUIFENS			
LARVAE	18		18

2.4.5.262



APPENDIX C-12-2 (Continued)

SITE = 23

SITE DESC = WHITE RIVER

COLLECTION METHOD = tall cylindrical

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
NEMATODA	117	98	117
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
TUBIFICIDAE			
LIMNODRILUS CLAPAREDEIANUS			
TYPICAL	20		39
LIMNODRILUS HUFFMEISTERI			
TYPICAL	98		20
IMMATURES WITH CAP. CHAETAE SP		20	
IMMATURES W/O CAP. CHAETAE SP	59		98
NAIDIDAE			
NAIS SP	20	20	
NAIS BEHNINGI			39
ARTHROPODA			
ARACHNIDIDEA			
ACARI	20		
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
LARVAE	20		137

2.4.5.263

APPENDIX C-12-2 (Continued)

SITE = 23

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
BAETIS SP			

LARVAE		137	59
EPHEMERELLIDAE			
EPHEMERELLA SP			

LARVAE	486	1619	741
TRICORYTHIDAE			
TRICORYTHODES SP			

LARVAE	20	195	117
PLECOPTERA			
SYSTELLOGNATHA			
PERLODIDAE			
ISOPERLA SP			

LARVAE	39	176	39
COLEOPTERA			
ELMIDAE			
DUBINAPHIA SP			

LARVAE			20
TRICHOPTERA			
RHYACOPHILIDAE			
GLOSSOSOMATINAE			
UNIDENTIFIED			

LARVAE	20		
HYDROPSYCHIDAE			
UNIDENTIFIED			

LARVAE			215
HYDROPSYCHE SP			

LARVAE	20	312	78
HYDROTILLIDAE			

2.4.5.264

APPENDIX C-12-2 (Continued)

SITE = 23 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
TRICHOPTERA			
HYDROPTILIDAE			
NEOTRICHIA SP			
LARVAE		20	
LEPIDOPTERA			
PYRALIDAE			
UNIDENTIFIED			
LARVAE	20	20	
DIPTERA			
UNIDENTIFIED			
PUPAE		683	
TIPULIDAE			
LIMNOPHILA SP			
LARVAE	117		117
HEXATOMA SP			
LARVAE		39	
CERATOPOGONIDAE			
UNIDENTIFIED			
LARVAE	39	59	20
CHIRONOMIDAE			
UNIDENTIFIED			
PUPAE	215		176
TANYPODINAE			
CUNCHAPELOPIA SP			
LARVAE		39	
DIASELIDAE			
BOOTHOMESA SP			
LARVAE	20		

APPENDIX C-12-2 (Continued)

SITE = 23

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLOADIINAE			
UNIDENTIFIED			
LARVAE	39	59	39
CRICOTOPUS CRICOTOPUS			
LARVAE	59		
CRICOTOPUS CRICOTOPUS BICINCTUS			
LARVAE	20		
CRICOTOPUS CRICOTOPUS TRIFASCIA			
LARVAE	20	59	
EUKIEFFERIELLA SP			
LARVAE	410	683	312
ORTHOCLODIUS SP			
LARVAE	995	1794	956
PARAKIEFFERIELLA SP			
LARVAE		39	
PARAPHAENOCLODIUS SP			
LARVAE	59		20
THIENEMANNIELLA SP			
LARVAE		59	

APPENDIX C-12-2 (Continued)

SITE = 23

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
CHIRONOMINAE			
CHIRONOMUS SP			

LARVAE		3062	
HARNISCHIA SP			

LARVAE	20		
MICROTENDIPES SP			

LARVAE	39	156	39
POLYPEDILUM TRIPODURA GRP.			

LARVAE	78		176
STICTOCHIRONOMUS SP			

LARVAE			20
TANYTARSINI SP			

LARVAE	20		
MICROPSECTRA SP			

LARVAE		39	
RHEJTANYTARSUS SP			

LARVAE	96	137	78
RHAGIINIDAE			
ATHERIX VARIEGATA			

LARVAE		20	

2.4.5.267

APPENDIX C-12-2 (Continued)

SITE = 23

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
EMPIDIDAE			
HEMERODROMIA SP			

LARVAE		20	

2.4.5.269

APPENDIX C-12-2 (Continued)

SITE = 24

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
NEMATODA	98	117	156
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
TUBIFICIDAE			
LIMNODRILUS CLAPAREDEIANUS			
TYPICAL		59	156
LIMNODRILUS HOFFMEISTERI			
TYPICAL	137	78	1502
TUBIFEX TUBIFEX			39
IMMATURES WITH CAP. CHAETAE SP			78
IMMATURES W/D CAP. CHAETAE SP	566	429	1580
NAIDIDAE			
NAIS SP		59	
NAIS BEHNINGI	59		137
ARTHROPODA			
ARACHNOIDEA		20	20
ACARI			

2.4.5.269

APPENDIX C-12-2 (Continued)

SITE = 24 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
LARVAE	39		254
BAETIS SP			
LARVAE	59	566	78
HEPTAGENIIDAE			
RHITHROGENA SP			
LARVAE		39	78
EPHEMERELLIDAE			
EPHEMERELLA SP			
LARVAE	644	3237	1989
TRICORYTHIDAE			
TRICORYTHODES SP			
LARVAE	39	176	293
ODONATA			
ANISOPTERA			
ZOMPHIDAE			
UNIDENTIFIED			
LARVAE			20
PLECOPTERA			
SYSTELLUGNATHA			
PERLODIDAE			
ISOPERLA SP			
LARVAE	98	600	234
COLEOPTERA			
ELMIDAE			
DUSIRAPHIA SP			
LARVAE			20
MICROXYLIIDAE SP			

2.4.5.270

APPENDIX C-12-2 (Continued)

SITE = 24

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
TRICHOPTERA			
HYDROPSYCHIDAE			
UNIDENTIFIED			

LARVAE	20		20
HYDROPSYCHE SP			

LARVAE		20	39
HYDROPTILIDAE			
HYDROPTILA SP			

LARVAE			98
DIPTERA			
UNIDENTIFIED			

PUPAE		78	
TIPULIDAE			
LIENOPHILA SP			

LARVAE	39		39
HEMATOMA SP			

LARVAE		59	
CERATOPOGONIDAE			
UNIDENTIFIED			

LARVAE	117	20	39
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	39		137
DIAEESINAE			
DIANESA SP			

LARVAE		20	

2.4.5.271

APPENDIX C-12-2 (Continued)

SITE = 24

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
DIAMESINAE			
ODONTOMESA SP			

LARVAE			59
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE		98	
CRICOTOPUS CRICOTOPUS			

LARVAE			59
CRICOTOPUS ISOCLADIUS			

LARVAE			59
EUKIEFFERIELLA SP			

LARVAE	93	351	156
ORTHOCLADIUS SP			

LARVAE	1034	566	1892
PARAPHAENOCLADIUS SP			

LARVAE	39	20	98
ORTHOCLADIINAE SP. 2			

LARVAE			59
CHIRONOMINAE			
CRYPTOCHIRONOMUS SP			

LARVAE	20		215

2.4.5.272

APPENDIX C-12-2 (Continued)

SITE = 24 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

2.4.5.273

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
CHIRONOMINAE			
MICROTENDIPES SP			

LARVAE	644	819	2262
PARACLADOPELMA SP			

LARVAE		20	
POLYPEDILUM TRIPODURA GRP.			

LARVAE	20		
RHEOTANYTARSUS SP			

LARVAE	98	273	59
RHAGIONIDAE			
ATHERIX VARIEGATA			

LARVAE	39	117	59
EMPIDIDAE			
HEMERODROMIA SP			

LARVAE		20	

APPENDIX C-12-2 (Continued)

SITE = 25

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C
NEMATODA	20	59	59
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE		20	39
TUBIFICIDAE			
IMMATURES W/O CAP. CHAETAE SP			
-----	39	20	
NAUIDAE			
NAIS SP			
-----	78	78	20
NAIS BENNINGI			
-----		20	20
ARTHROPODA			
ARACHNOIDEA			
ACARI		98	20
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			

LARVAE	39		78
BAETIS SP			

LARVAE	59	585	59
HEPTAGENIIDAE			
RHITHROGENA SP			

LARVAE	20		59

2.4.5.274

APPENDIX C-12-2 (Continued)

SITE = 25

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON

REP A

REP B

REP C

ARTHROPODA

INSECTA

EPHEMEROPTERA

HEPTAGENIIDAE

LARVAE

20

LEPTOPHLEBIIDAE

UNIDENTIFIED

LARVAE

20

PARALEPTOPHLEBIA SP

LARVAE

20

EPHEMERELLIDAE

EPHEMERELLA SP

LARVAE

1599

2282

1209

TRICORYTHIDAE

TRICORYTHODES SP

LARVAE

78

1073

PLECOPTERA

SYSTELLUGNATHA

PERLODIDAE

UNIDENTIFIED

LARVAE

39

ISOPERLA SP

LARVAE

20

COLLEOPTERA

DRYOPIDAE

HELICHUS SP

ADULTS

20

TRICHOPTERA

RHYACOPHILIDAE

GLUSSUS MATINAE

2.4.5.275



APPENDIX C-12-2 (Continued)

SITE = 25 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
TRICHOPTERA			
HYDROPSYCHIDAE			
UNIDENTIFIED			

LARVAE	20		
HYDROPSYCHE SP			

LARVAE	39	410	20
HYDROPTILIDAE			
HYDROPTILA SP			

LARVAE		137	
DIPTERA			
UNIDENTIFIED			

PUPAE		312	
TIPULIDAE			
LIMNOPHILA SP			

LARVAE			76
HEXATOMA SP			

LARVAE		96	
CERATOPUSONIDAE			
UNIDENTIFIED			

LARVAE	39	39	20
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	98		78
DIAMESINAL			
DOONTOMESA SP			

LARVAE	78		

2.4.5.276

APPENDIX C-12-2 (Continued)

SITE = 25

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE	20		98
EUKIEFFERIELLA SP			

LARVAE	59	254	254
ORTHOCLADIUS SP			

LARVAE	371	683	332
PARAKIEFFERIELLA SP			

LARVAE			20
PARAPHAENOCCLUS SP			

LARVAE		39	20
PARAMETRIONEMUS SP			

LARVAE		78	
ORTHOCLADIINAE SP. 2			

LARVAE	39		
CHIRONOMIDAE			
MICROTENDIPES SP			

LARVAE	59	117	20
PARACLAODPELMA SP			

LARVAE			39

2.4.5.277

APPENDIX C-12-2 (Continued)

SITE = 25 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

2.4.5.278

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
CHIRONOMINAE			
TANYTARSINI SP			

LARVAE	20	59	
CLADOTANYTARSUS SP			

LARVAE			20
RHEUTANYTARSUS SP			

LARVAE		117	20
RHAGIONIDAE			
ATHERIX VARIEGATA			

LARVAE	20	98	20

APPENDIX C-12-2 (Continued)

SITE = 26

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
NEMATODA	98		137
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEDIAE		20	
TUBIFICIDAE			
LIMNODRILUS CLAPAREDEIANUS			

TYPICAL			59
LIMNODRILUS HOFFMEISTERI			

TYPICAL	20		195
TUBIFEX TUBIFEX			

IMMATURES WITH CAP. CHAETAE SP			20

IMMATURES W/O CAP. CHAETAE SP			20

-----	20		117
NAIDIDAE			
NAIS SP			

-----	137	156	
NAIS BEHRINGI			

-----	20		

2.4.5.279

APPENDIX C-12-2 (Continued)

SITE = 26

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
ARACHNOIDEA			
ACARI	78	39	39
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
LARVAE	59		78
BAETIS SP			
LARVAE	78	78	59
EPHEMERELLIDAE			
EPHEMERELLA SP			
LARVAE	2457	1209	1872
TRICORYTHIDAE			
TRICORYTHODES SP			
LARVAE	1736	527	156
PLECOPTERA			
SYSTELLONATHA			
PERLODIDAE			
ISOPERLA SP			
LARVAE	98	78	117
COLEOPTERA			
ELMIDAE			
DUBIRAPHIA SP			
LARVAE	20		
MICROCYLLODEPUS SP			
LARVAE		20	
TRICHOPTERA			
HYDROPSYCHIDAE			
UNIDENTIFIED			
LARVAE	527		59

2.4.5.280



APPENDIX C-12-2 (Continued)

SITE = 26

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
TRICHOPTERA			
HYDROPSYCHIDAE			
HYDROPSYCHE SP			

LARVAE	117	410	117
HYDROPTILIDAE			
HYDROPTILA SP			

LARVAE	20		
LEPIDOPTERA			
PYRALIDAE			
UNIDENTIFIED			

LARVAE	39		
DIPTERA			
UNIDENTIFIED			

PUPAE		195	
TIPULIDAE			
LIMNOPHILA SP			

LARVAE	20		
CULICIDAE			
UNIDENTIFIED			

LARVAE			20
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	273		156
TANYPODINAE			
CONCHAPELOPIA SP			

LARVAE	39		
DIAMESINAE			
DIAMESINAE SP. 1			

LARVAE			20

2.4.5.231

APPENDIX C-12-2 (Continued)

SITE = 26

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
DIAMESINAE			
DIAMESA SP			

LARVAE			39
ODONTOMESA SP			

LARVAE	20		
ORTHOCLODIINAE			
UNIDENTIFIED			

LARVAE	59	20	59
CRICOTOPUS CRICOTOPUS			

LARVAE	20		
EUKIEFFERIELLA SP			

LARVAE	20	117	156
ORTHOCLODIUS SP			

LARVAE	1092	663	897
PARAKIEFFERIELLA SP			

LARVAE	39		
PARAPHAEODCLADIUS SP			

LARVAE	78		39
CHIRONOMINAE			
CRYPTOCHIRONOMUS SP			

LARVAE	20		

2.4.5.282

APPENDIX C-12-2 (Continued)

SITE = 26 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
CHIRONOMINAE			
HARNISCHIA SP			

LARVAE		20	
MICROTENDIPES SP			

LARVAE	527	273	273
POLYPEDILUM TRIPODURA GRP.			

LARVAE	20		
STICTOCHIRONOMUS SP			

LARVAE			20
RHODTANYTARSUS SP			

LARVAE	293	429	20
ZAVRELIA SP			

LARVAE	20		

2.4.5.283

APPENDIX C-12-2 (Continued)

SITE = 27 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
NEMATODA	20		
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
TUBIFICIDAE			
LIMNODRILUS CLAPAREDEIANUS			

TYPICAL		20	39
LIMNODRILUS HOFFMEISTERI			

TYPICAL	332		78
IMMATURES WITH CAP. CHAETAE SP			

TYPICAL	20		
IMMATURES W/O CAP. CHAETAE SP			

TYPICAL	644	117	156
NAIDIDAE			
PRISTINA SP			

TYPICAL	20		
ARTHROPODA			
ARACHNOIDEA			
ACARI	39		
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
BAETIS SP			

LARVAE	20	39	
EPHEMERELLIDAE			
EPHEMERELLA SP			

LARVAE	176	468	20

2.4.5.284

APPENDIX C-12-2 (Continued)

SITE = 27 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
DIAMESINAE			
ODONTOMESA SP			

LARVAE		20	20
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE	20	20	
ORTHOCLADIUS SP			

LARVAE	78	488	
PARAKIEFFERIELLA SP			

LARVAE	20	39	
PARAPHAENOCCLADIUS SP			

LARVAE		20	20
CHIRONOMINAE			
CHIRONOMINI SP			

LARVAE	20		
MICROTENDIPES SP			

LARVAE	234	234	
PARACLADOPELMA SP			

LARVAE		39	78
STICTOCHIRONOMUS SP			

LARVAE	39		39

APPENDIX C-12-2 (Continued)

SITE = 27 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
CHIRONOMINAE			
RHEUTANYTARSUS SP			

LARVAE		59	

2.4.5.287

APPENDIX C-12-2 (Continued)

SITE = 28 SITE DESC = WHITE RIVER COLLECTION METHOD = SHORT CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.7

TAXON	REP A	REP B	REP C
NEMATODA	20	256	20
ANNELIDA			
CLISOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE	197	532	
TUBIFICIDAE			
UNIDENTIFIED SP. 1			
-----	138	20	39
LIMNODRILUS SP. 1			
-----	138	20	59
LIMNODRILUS CLAPAREDEIANUS			

TYPICAL	59		
LIMNODRILUS HOFFMEISTERI			

TYPICAL	217	276	256
LIMNODRILUS UDEKENIANUS			
-----		20	
TUBIFEX TUBIFEX			
-----	39		
IMMATURES WITH CAP. CHAETAE SP			
-----	315	571	315

2.4.5.238

APPENDIX C-12-2 (Continued)

SITE = 28 SITE DESC = WHITE RIVER COLLECTION METHOD = SHORT CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.7

TAXON	REP A	REP B	REP C
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
TURIFICIDAE			
IMMATURES W/O CAP. CHAETAE SP			
-----	591	749	847
NAIDIDAE			
NAIS SP			
-----	374	217	118
NAIS BEHNINGI			
-----	20		
NAIS ELINGUIS			
-----	59		
LUMBRICULIDA			
LUMBRICULIDAE			
UNIDENTIFIED			
-----			20
ARTHROPODA			
CRUSTACEA			
OSTRACODA		39	
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			

LARVAE	276		79
BAETIS SP			

LARVAE	99	236	315
HEPTAGENIIDAE			
UNIDENTIFIED			

LARVAE		20	

APPENDIX C-12-2 (Continued)

SITE = 26 SITE DESC = WHITE RIVER COLLECTION METHOD = SHORT CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.7

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
HEPTAGENIIDAE			
RHITHROGENA SP			

LARVAE	20		118
EPHEMERELLIDAE			
EPHEMERELLA SP			

LARVAE	1221	749	1773
TRICORYTHIDAE			
TRICORYTHODES SP			

LARVAE	158	296	276
ODONATA			
ANISOPTERA			
GOMPHIDAE			
UNIDENTIFIED			

LARVAE	20		
PLECOPTERA			
SYSTELLUGNATHA			
PERLODIDAE			
ISOPERLA SP			

LARVAE	59		138
COLEOPTERA			
ELMIDAE			
DUBIRAPHIA SP			

LARVAE		20	
MICROCYLLOPEUS SP			

LARVAE	20		
TRICHOPTERA			
HYDRIDAE			
HYDRIDAE			

LARVAE			

2.4.5.290

APPENDIX C-12-2 (Continued)

SITE = 28

SITE DESC = WHITE RIVER

COLLECTION METHOD = SHORT CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.7

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
UNIDENTIFIED			
PUPAE		39	
TIPULIDAE			
LIMNOPHILA SP			
LARVAE	20		
HEXATOMA SP			
LARVAE		39	
CERATOPOGONIDAE			
UNIDENTIFIED			
LARVAE	20	59	39
CHIRONOMIDAE			
UNIDENTIFIED			
PUPAE	276		118
TANYPODINAE			
CONCHAPELOPIA SP			
LARVAE	20		177
DIAMESINAE			
MONODIAMESA SP			
LARVAE	118	20	138
ORTHOCCLADIINAE			
UNIDENTIFIED			
LARVAE	39	79	59
CRICOTOPUS CRICOTOPUS BICINCTUS			
LARVAE	20		

2.4.5.291

APPENDIX C-12-2 (Continued)

SITE = 26

SITE DESC = WHITE RIVER

COLLECTION METHOD = SHORT CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.7

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCCLADIINAE			
EUKIEFFERIELLA SP			

LARVAE	39		
ORTHOCCLADIUS SP			

LARVAE	1044	965	1123
PARACCLADIUS SP			

LARVAE		20	
PARAKIEFFERIELLA SP			

LARVAE	118	118	79
PAPAPHAENOCCLADIUS SP			

LARVAE	256	197	630
CHIRONOMINAE			
CHIRONOMUS SP			

LARVAE	20		
CRYPTOCHIRONOMUS SP			

LARVAE		39	59
MICROTENDIPES SP			

LARVAE	335		59
POLYPEDILUM TRIPODURA GRP.			

LARVAE	39	20	

2.4.5.292

APPENDIX C-12-2 (Continued)

SITE = 28

SITE DESC = WHITE RIVER

COLLECTION METHOD = SHORT CIRCLE SURBER

CONVERSION FACTOR APPLIED= 19.7

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
CHIRONOMINAE			
STICTOCHIRONOMUS SP			

LARVAE			79
RHEOTANYTARSUS SP			

LARVAE	20	20	20
SIMULIIDAE			
UNIDENTIFIED			

LARVAE		20	
TABANIDAE			
TABANUS SP			

LARVAE	20		

2.4.5.293

APPENDIX C-12-2 (Continued)

SITE = 29 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
NEMATODA	20	293	39
ANNELIDA			
OLIGOCHAETA			
MAPLOTAXIDA			
ENCHYTRAEIDAE		20	20
TUBIFICIDAE			
UNIDENTIFIED SP. 1		20	20

ILYODORILUS TEMPLETONI			20

LIMNODRILUS SP. 1	20		98

LIMNODRILUS CLAPAREDEIANUS			

TYPICAL	20		
LIMNODRILUS HOFFMEISTERI			

TYPICAL	117	39	332
LIMNODRILUS UDEKEMIANUS			

TUBIFEX TUBIFEX	20		137

			39

2.4.5.294

APPENDIX C-12-2 (Continued)

SITE = 29

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
TUBIFICIDAE			
IMMATURES WITH CAP. CHAETAE SP			
-----	98		137
IMMATURES W/O CAP. CHAETAE SP			
-----	605	59	1619
VAIDIDAE			
VAIS SP			
-----	858	312	195
VAIS BEHNINGI			
-----			20
VAIS ELINGUIS			
-----			20
ARTHROPODA			
ARACHNOIDEA			
ACARI	20	39	20
CRUSTACEA			
OSTRACODA		39	
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			

LARVAE	59		20
BAETIS SP			

LARVAE	20	137	

2.4.5.295

APPENDIX C-12-2 (Continued)

SITE = 29 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
HEPTAGENIIDAE			
RHITHROGENA SP			

LARVAE	39	20	39
EPHEMERELLIDAE			
EPHEMERELLA SP			

LARVAE	527	897	468
PLECOPTERA			
SYSTELLOGNATHA			
PERLODIDAE			
ISOPERLA SP			

LARVAE	39	195	39
COLEOPTERA			
DYTISCIDAE			
DERIVATELLUS SP			

LARVAE		20	
ELMIDAE			
DUBIRAPHIA SP			

LARVAE	20		
TRICHOPTERA			
HYDROPSYCHIDAE			
UNIDENTIFIED			

LARVAE	20		78
HYDROPSYCHE SP			

LARVAE	39	410	20
HYDROPTILIDAE			
HYDROPTILA SP			

LARVAE	20		
DIPTERA			

APPENDIX C-12-2 (Continued)

SITE = 29

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CERATOPOGONIDAE			
UNIDENTIFIED			
LARVAE	39	78	59
CHIRONOMIDAE			
UNIDENTIFIED			
PUPAE	59		
TANYPODINAE			
CUNYCHAELOPIA SP			
LARVAE	20		39
DIAMESINAE			
MUNDIAMESA SP			
LARVAE			20
ORTHOCCLADIINAE			
UNIDENTIFIED			
LARVAE	59	234	
CRICOTOPUS SP			
LARVAE			20
CRICOTOPUS CRICOTOPUS			
LARVAE	59	117	20
CRICOTOPUS ISOCLADIUS			
LARVAE		20	
EUKIEFFERIELLA SP			
LARVAE		59	20

2.4.5.297

APPENDIX C-12-2 (Continued)

SITE = 29

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCCLADIINAE			
ORTHOCCLADIUS SP			
LARVAE	449	1521	312
PARAPHAENOCCLADIUS SP			
LARVAE	98	20	59
ORTHOCCLADIINAE SP. 3			
LARVAE	39		
CHIRONOMINAE			
MICROTENDIPES SP			
LARVAE	20	20	
PHAENOPSECTRA PHAENOPSECTRA			
LARVAE			20
POLYPEDILUM TRIPODURA GRP.			
LARVAE	59	20	
STICTOCHIRONOMUS SP			
LARVAE	20	39	410
RHENTANYTARSUS SP			
LARVAE		137	
SIMULIIDAE			
UNIDENTIFIED			
LARVAE	20		20

2.4.5.293

APPENDIX C-12-2 (Continued)

SITE = 29

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON

REP A

REP B

REP C

ARTHROPODA

INSECTA

DIPTERA

RHAGIONIDAE

ATHERIX VARIEGATA

LARVAE

20

EMPIDIDAE

HEMERODROMIA SP

LARVAE

39

2.4.5.299

APPENDIX C-12-2 (Continued)

SITE = 30 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
NEMATODA	20	39	
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
TUBIFICIDAE			
IMMATURES W/O CAP. CHAETAE SP			
-----	98	20	78
NAIDIDAE			
NAIS SP			
-----	20		39
NAIS BEHNINGI			
-----	78		39
ARTHROPODA			
ARACHNOIDEA			
ACARI	39		78
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			

LARVAE	20		
BAETIS SP			

LARVAE	39	117	39
EPHEMERELLIDAE			
EPHEMERELLA SP			

LARVAE	1424	917	936
TRICORYTHIDAE			
TRICORYTHODES SP			

LARVAE	527	234	390

APPENDIX C-12-2 (Continued)

SITE = 30

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
ODONATA			
ANISOPTERA			
GOMPHIDAE			
UNIDENTIFIED			
LARVAE	20		
PLECOPTERA			
SYSTELLOGNATHA			
PERLODIDAE			
ISOPERLA SP			
LARVAE	78		20
COLEOPTERA			
ELMIDAE			
DUBIRAPHIA SP			
LARVAE	20		
MICROCYLLIDAE SP			
LARVAE	20		
TRICHOPTERA			
HYDROPSYCHIDAE			
UNIDENTIFIED			
LARVAE	449		176
HYDROPSYCHE SP			
LARVAE	93	20	137
HYDROPTILIDAE			
HYDROPTILA SP			
LARVAE	449	39	59
LEPIDOPTERA			
PYRALIDAE			
UNIDENTIFIED			
LARVAE	39	20	20

2.4.5.301

APPENDIX C-12-2 (Continued)

SITE = 30

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
TIPULIDAE			
LIMNOPHILA SP			

LARVAE			78
CERATOPODOVIDAE			
UNIDENTIFIED			

LARVAE		20	20
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	78		137
TANYPODINAE			
CONCHAPELOPIA SP			

LARVAE	20		
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE	20	59	
CRICOTOPUS CRICOTOPUS			

LARVAE	20		98
EUKIEFFERIELLA SP			

LARVAE	78	117	98
ORTHOCLADIUS SP			

LARVAE	527	449	585
PARAKIEFFERIELLA SP			

LARVAE	20	20	

2.4.5.302

APPENDIX C-12-2 (Continued)

SITE = 30

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLAADIINAE			
PARAPHAENOCADIUS SP			
LARVAE	20		39
PARAMETRIOCNEMUS SP			
LARVAE		20	
CHIRONOMINAE			
MICROTENDIPES SP			
LARVAE	917	507	2867
PARACLAODPELMA SP			
LARVAE	39		
POLYPEDILUM TRIPODURA GRP.			
LARVAE		20	
RHELTANYTARSUS SP			
LARVAE	624	254	624
EMPIDIDAE			
CLINOCERA SP			
LARVAE	39		20

2.4.5.303

APPENDIX C-12-2 (Continued)

SITE = 31 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C
NEMATODA	20	59	
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
TUBIFICIDAE			
IMMATURES W/O CAP. CHAETAE SP			
-----	39	20	
NAIDIDAE			
NAIS SP			
-----	20	117	
LUMBRICULIDA			
LUMBRICULIDAE			
UNIDENTIFIED			
-----			20
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			

LARVAE	117		98
BAETIS SP			

LARVAE	39	312	78
HEPTAGENIIDAE			
RHITHROGENA SP			

LARVAE	39		39
EPHEMERELLIDAE			
EPHEMERELLA SP			

LARVAE	1151	1463	449
TRICORYTHIDAE			
TRICORYTHODES SP			

LARVAE		78	20

2.4.5.304

APPENDIX C-12-2 (Continued)

SITE = 31 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
PLECOPTERA			
SYSTELLOGNATHA			
PERLODIDAE			
ISOPERLA SP			

LARVAE	20	98	
TRICHOPTERA			
RHYACOPHILIDAE			
GLOSSOSOMATINAE			
UNIDENTIFIED			

LARVAE	39		20
HYDROPSYCHIDAE			
UNIDENTIFIED			

LARVAE	312		59
HYDROPSYCHE SP			

LARVAE	59	683	20
HYDROPTILIDAE			
HYDROPTILA SP			

LARVAE	39	39	
LEPIDOPTERA			
PYRALIDAE			
UNIDENTIFIED			

LARVAE	20	39	
DIPTERA			
UNIDENTIFIED			

PUPAE		117	
TIPULIDAE			
LYMPHILA SP			

LARVAE	20		39
HEXATOMA SP			

2.4.5.305

APPENDIX C-12-2 (Continued)

SITE = 31

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CERATOPUSONIDAE			
UNIDENTIFIED			

LARVAE	20	78	
CHIRONOMIDAE			
UNIDENTIFIED			

LARVAE	137		
UNIDENTIFIED			

PUPAE			39
DIAMESINAE			
MONODIAMESA SP			

LARVAE	20		
ODONTOMESA SP			

LARVAE		20	
ORTHOCCLADIINAE			
UNIDENTIFIED			

LARVAE		39	
EUKIEFFERIELLA SP			

LARVAE	273	410	195
ORTHOCCLADIUS SP			

LARVAE	429	605	351
PARAPHAENOCCLADIUS SP			

LARVAE	20		

2.4.5.306

APPENDIX C-12-2 (Continued)

SITE = 31

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCCLADIINAE			
ORTHOCCLADIINAE SP. 1			
LARVAE	20		
CHIRONOMINAE			
MICROTENDIPES SP			
LARVAE	20	117	20
PARACLAODIPELMA SP			
LARVAE		20	
STICTOCHIRONOMUS SP			
LARVAE			20
RHEUTANYTARSUS SP			
LARVAE			20
ZAVRELIA SP			
LARVAE			20
SIMULIIDAE			
UNIDENTIFIED			
LARVAE		20	
EMPIDIDAE			
HEMERODROMIA SP			
LARVAE		20	

APPENDIX C-12-2 (Continued)

SITE = 32 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
NEMATODA		20	
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE	20	39	
TUBIFICIDAE			
LIMNODRILUS SP. 1			39

LIMNODRILUS HOFFMEISTERI			

TYPICAL			20
IMMATURES WITH CAP. CHAETAE SP			39

IMMATURES W/O CAP. CHAETAE SP			

	98	117	59
NAIDIDAE			
NAIS SP			

	39	449	39
NAIS ELINGUIS			

			137
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			

LARVAE			20

2.4.5.303

APPENDIX C-12-2 (Continued)

SITE = 32 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
BAETIS SP			

LARVAE		117	59
EPHEMERELLIDAE			
EPHEMERELLA SP			

LARVAE	1151	956	605
TRICORYTHIDAE			
TRICORYTHIDES SP			

LARVAE	78		39
ODONATA			
ANISOPTERA			
GOMPHIDAE			
UNIDENTIFIED			

LARVAE	20		
PLECOPTERA			
SYSTELLOGNATHA			
PERLODIDAE			
ISOPERLA SP			

LARVAE		20	
COLEOPTERA			
ELMIDAE			
MICROCYLLIDAEUS SP			

LARVAE		20	20
TRICHOPTERA			
HYDROPSYCHIDAE			
UNIDENTIFIED			

LARVAE	98		20
HYDROPSYCHE SP			

LARVAE		20	

2.4.5.309

APPENDIX C-12-2 (Continued)

SITE = 32 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
UNIDENTIFIED			
PUPAE		156	
CERATOPOGONIDAE			
UNIDENTIFIED			
LARVAE			59
CHIRONOMIDAE			
UNIDENTIFIED			
PUPAE	78		78
TANYPODINAE			
CUNCHAPELOPIA SP			
LARVAE			78
DIAMESINAE			
MONODIAMESA SP			
LARVAE			39
POTTHASTIA SP			
LARVAE			20
ORTHOCLADIINAE			
UNIDENTIFIED			
LARVAE	20	117	
CRICOTOPUS SP			
LARVAE	20		
CRICOTOPUS CRICOTOPUS			
LARVAE	59	215	

2.4.5.310

APPENDIX C-12-2 (Continued)

SITE = 32

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON

REP A

REP B

REP C

ARTHROPODA

INSECTA

DIPTERA

CHIRONOMIDAE

ORTHOCLADIINAE

EUKIEFFERIELLA SP

LARVAE

117

59

ORTHOCLADIUS SP

LARVAE

1229

702

780

PARAKIEFFERIELLA SP

LARVAE

39

PARAPHAENOCCLADIUS SP

LARVAE

195

195

176

CHIRONOMIDAE

MICROTENDIPES SP

LARVAE

39

234

234

POLYPEDILUM TRIPODURA GRP.

LARVAE

20

20

STICTOCHIRONOMUS SP

LARVAE

20

RHEUTANYTARSUS SP

LARVAE

59

59

EMPIDIDAE

HEMEROPTERIDIA SP

LARVAE

20

2.4.5.311

APPENDIX C-12-2 (Continued)

SITE = 33 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
NEMATODA	59	176	156
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
TUBIFICIDAE			
LIMNODRILUS HOFFMEISTERI			
TYPICAL		117	20
LIMNODRILUS UDEKEMIANUS		20	
IMMATURES WITH CAP. CHAETAE SP		20	
IMMATURES W/D CAP. CHAETAE SP	98	117	156
NAIDIDAE			
NAIS ELINGUIS			20
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
LARVAE	59		
BAETIS SP			
LARVAE	273	59	78
HEPTAGENIIDAE			
RHITHROGENA SP			
LARVAE	98	20	117

2.4.5.312

APPENDIX C-12-2 (Continued)

SITE = 33

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
EPHEMERELLIDAE			
EPHEMERELLA SP			
LARVAE	1872	702	761
PLECOPTERA			
SYSTELLONATHA			
PERLODIDAE			
ISOPERLA SP			
LARVAE	39		39
COLEOPTERA			
ELMIDAE			
MICROCYLLOEPUS SP			
LARVAE	20		
TRICHOPTERA			
RHYACOPHILIDAE			
GLOSSEOMATINAE			
UNIDENTIFIED			
LARVAE	39		39
HYDROPSYCHIDAE			
UNIDENTIFIED			
LARVAE	20		
HYDROPSYCHE SP			
LARVAE		39	20
LEPTOCERIDAE			
DECETIS SP			
LARVAE	20		
DIPTERA			
UNIDENTIFIED			
LARVAE			

APPENDIX C-12-2 (Continued)

SITE = 33 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
TIPULIDAE			
HEXATOMA SP			

LARVAE		78	
CERATOPOGONIDAE			
UNIDENTIFIED			

LARVAE	59		20
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	59		
ORTHOCLADIINAE			
CRICOTOPUS CRICOTOPUS			

LARVAE			20
EUKIEFFERIELLA SP			

LARVAE	59		
ORTHOCLADIUS SP			

LARVAE	390	156	371
PARAPHAENOCCLADIUS SP			

LARVAE	39	20	
PARAMETRIDCNEMUS SP			

LARVAE		20	
ORTHOCLADIINAE SP. 2			

LARVAE			20

2.4.5.314

APPENDIX C-12-2 (Continued)

SITE = 33

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
CHIRONOMINAE			
CRYPTOCHIRONOMUS SP			

LARVAE		39	
MICROTENDIPES SP			

LARVAE	39	234	78
POLYPEDILUM TRIPODURA GRP.			

LARVAE	78	98	449
RHEUTANYTARSUS SP			

LARVAE	215	39	20

2.4.5.315

APPENDIX C-12-2 (Continued)

SITE = 34

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
NEMATODA			20
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
TUBIFICIDAE			
IMMATURES W/O CAP. CHAETAE SP			
-----	78		
NAIDIDAE			
PRISTINA SP			
-----			20
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			

LARVAE	59		98
BAETIS SP			

LARVAE	176	117	273
HEPTAGENIIDAE			
RHITHROGENA SP			

LARVAE	20		215
EPHEMERELLIDAE			
EPHEMERELLA SP			

LARVAE	1053	176	1034
TRICORYTHIDAE			
TRICORYTHODES SP			

LARVAE	39		39
PLECOPTERA			
SYSTELLONATHA			
PERLOUIDAE			
ISOPERLA SP			

LARVAE	20		20

2.4.5.316

APPENDIX C-12-2 (Continued)

SITE = 34

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
TRICHOPTERA			
RHYACOPHILIDAE			
GLOSSOSOMATINAE			
UNIDENTIFIED			
LARVAE	20		
HYDROPSYCHIDAE			
HYDROPSYCHE SP			
LARVAE	20		
DIPTERA			
TIPULIDAE			
LIMNOPHILA SP			
LARVAE			20
HEXATOMA SP			
LARVAE		39	
CHIRONOMIDAE			
UNIDENTIFIED			
PUPAE	20		20
DIAMESINAE			
ODONTOMESA SP			
LARVAE	20		
POTTHASTIA SP			
LARVAE			20
ORTHOCLADIINAE			
ORTHOCLADIUS SP			
LARVAE	390		312
PARAKIEFFERIELLA SP			
LARVAE			39

2.4.5.317

APPENDIX C-12-2 (Continued)

SITE = 34

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLADIINAE			
PARAPHAENDCLADIUS SP			

LARVAE	20		20
PARAMETRIONEMUS SP			

LARVAE	20		
ORTHOCLADIINAE SP. 1			

LARVAE	20		
ORTHOCLADIINAE SP. 2			

LARVAE	20		
CHIRONOMINAE			
CHIRONOMUS SP			

LARVAE			20
MICROTENDIPES SP			

LARVAE	59		
PARACLAODOPELMA SP			

LARVAE			39
POLYPEDILUM TRIPODURA GRP.			

LARVAE	20		
RHECTANYTARSUS SP			

LARVAE	20		

2.4.5.318

APPENDIX C-12-2 (Continued)

SITE = 35

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
NEMATODA	39	117	
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE	20	20	
TUBIFICIDAE			
LIMNODRILUS HOFFMEISTERI			
TYPICAL		20	
IMMATURES W/O CAP. CHAETAE SP	20	39	
NAIDIDAE			
NAIS SP		20	
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
LARVAE	117		
BAETIS SP			
LARVAE	59	98	
HEPTAGENIIDAE			
RHITHROGENA SP			
LARVAE	59	59	
EPHEMERELLIDAE			
EPHEMERELLA SP			
LARVAE	351	1502	

2.4.5.319

APPENDIX C-12-2 (Continued)

SITE = 35

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
TRICORYTHIDAE			
TRICORYTHODES SP			

LARVAE		39	
PLECOPTERA			
SYSTELLUGNATHA			
PERLODIDAE			
ISOPERLA SP			

LARVAE	39	59	
COLEOPTERA			
ELMIDAE			
DUBIRAPHIA SP			

LARVAE		20	
TRICHOPTERA			
RHYACOPHILIDAE			
GLOSSOSOMATINAE			
UNIDENTIFIED			

LARVAE	78		
HYDROPSYCHIDAE			
HYDROPSYCHE SP			

LARVAE	39	59	
HYDROPTILIDAE			
VENTRICHIA SP			

LARVAE		78	
BRACHYCENTRIDAE			
BRACHYCENTRUS SP			

PUPAE	20		
DIPTERA			
UNIDENTIFIED			

PUPAE		156	
TRICORYTHIDAE			
TRICORYTHODES SP			

LARVAE			

2.4.5.320

APPENDIX C-12-2 (Conti. d)

SITE = 35 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	20		
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE	20	76	
EUKIEFFERIELLA SP			

LARVAE		117	
ORTHOCLADIUS SP			

LARVAE	78	1268	
ORTHOCLADIINAE SP. 1			

LARVAE	39		
CHIRONOMINAE			
MICROTENDIPES SP			

LARVAE	20		
PARACLADOPPELMA SP			

LARVAE	20		
RHEUTANYTARSUS SP			

LARVAE		59	
SIMULIIDAE			
UNIDENTIFIED			

LARVAE		20	

2.4.5.321

APPENDIX C-12-2 (Continued)

SITE = 55 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
SIMULIIDAE			
UNIDENTIFIED			

PUPAE		59	

APPENDIX C-13-1

MACROINVERTEBRATE TAXA OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX C-13-1

MACROINVERTEBRATE TAXA OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975

Nematoda

Mollusca

Gastropoda

Basommatophora

Physidae

Physa Draparnaud

Lymnaeidae

Lymnaea Lamarck

Planorbidae

Gyraulus parvus Charpentier

Annelida

Hirudinea

Rhynchobdellida

Glossiphoniidae

Helobdella stagnalis (Linnaeus)

Oligochaeta

Enchytraeidae

Haplotaxidae

Haplotaxis

Lumbriculidae

Naididae

Chaetogaster diastrophus

Nais sp.

Tubificidae

Ilyodrilus templetoni

Limnodrilus claparedeianus

Limnodrilus hoffmeisteri

Limnodrilus udekemianus

Limnodrilus sp.

Rhyacodrilinae

Tufificidae sp.

Immature Tubificidae with capilliform chaetae

Immature Tubificidae without capilliform chaetae

Arthropoda

Arachnoidea

Acari

Crustacea

Amphipoda

Talitridae

Hyallela azteca (Saussure)

Insecta

Ephemeroptera

Heptageniidae

Epeorus Eaton

Rhithrogena Eaton

APPENDIX C-13-1 (Continued)

Baetidae
 Baetis Leach
 Callibaetis Eaton
Ephemerellidae
 Ephemerella Walsh
Collembola
Odonata
Zygoptera
 Coenagrionidae
 Argia Rambur
 Argia sedula (Hagen)
 Amphiagron abbreviatum (Selys)
Anisoptera
 Gomphidae
Plecoptera
 Systellognatha
 Perlodidae
 Isoperla Banks
Coleoptera
 Dytiscidae
 Agabus Leach
 Deronectes Sharp
 Hydaticus Leach
 Hydroporus Clairville
 Rhantus Dejean
 Elmidae
 Dubiraphia Sanderson
 Hydrophilidae
Trichoptera
 Glossosomatidae
 Hydropsychidae
 Hydropsyche Pictet
 Hydroptilidae
 Hydroptila Dalman
Lepidoptera
 Pyralidae
Hemiptera
 Corixidae
Diptera
 Tipulidae
 Holorusia Loew
 Limnophila Macquart
 Ormosia Rondani
 Pedicia Latirelle
 Tipulidae (unidentified)
 Psychodidae
 Ceratopogonidae
 Culicoides Latirelle
Chironomidae
 Tanypodinae
 Larsia

APPENDIX C-13-1 (Continued)

Labrundina
Pentaneurini
Thienemannimyia grp.
 Diamesinae
 Diamesa
 Odontomesa
 Pseudodiamesa c.f. pertinax
 Diamesinae sp.
 Orthoclaadiinae
 Chaetocladius
 Corynoneura
 Cricotopus
 Cricotopus (Cricotopus)
 Cricotopus (Cricotopus) bicinctus
 Cricotopus (Isocladius)
 Eukiefferiella
 Gymnometriocnemus terrestris grp.
 Krenosmittia
 Metriocnemus
 Orthocladius
 Parametriocnemus
 Paraphaenocladius
 Pseudosmittia
 Thienemanniella
 Orthoclaadiinae sp.
 Chironominae
 Chironomini
 Cryptochironomus
 Microtendipes
 Paratendipes
 Phaenopsectra (phaenopsectra)
 Polypedilum tripodura grp.
 Tanytarsini
 Micropsectra
 Rheotanytarsus
 Dixidae
 Dixa
 Dolichopodidae
 Hydrophorus agalama
 Simuliidae
 Stratiomyidae
 Euparyphus Gerstaecker
 Stratiomys Geoffroy
 Rhagionidae
 Atherix variegata Walker
 Empididae
 Clinocera Meigen
 Hemerodromia Meigen
 Anthomyiidae
 Limnophora aequifrons Stein
 Limnophora discreta Stein
 Limnophora sp.

APPENDIX C-13-2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX C-13-2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975

SITE = 01

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
NEMATODA	145	72	416
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE	18		54
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
ADULTS	326		1557
BAETIS SP			
LARVAE	199	2172	1032
COLEOPTERA			
DYTISCIDAE			
UNIDENTIFIED			
LARVAE			18
DIPTERA			
UNIDENTIFIED			
PUPAE		36	
TIPULIDAE			
UNIDENTIFIED			
LARVAE		18	
PEDICIA SP			
LARVAE			18
LIMNOPHILA SP			
LARVAE			36

2. A 5 220

APPENDIX C-13-2 (Continued)

SITE # 01

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON

REP A

REP B

REP C

ARTHROPODA

INSECTA

DIPTERA

CERATOPOGONIDAE

UNIDENTIFIED

LARVAE

54

54

CHIRONOMIDAE

UNIDENTIFIED

LARVAE

18

UNIDENTIFIED

PUPAE

272

145

DIAMESINAE

UNIDENTIFIED

LARVAE

91

DIAMESA SP

LARVAE

796

163

380

PSEUDODIAMESA PERTINAX

LARVAE

326

235

ORTHOCLADIINAE

UNIDENTIFIED

LARVAE

18

163

EUKIFFERIELLA SP

LARVAE

109

18

91

ORTHOCLADIUS SP

LARVAE

235

199

923

2.4.5.329

APPENDIX C-13-2 (Continued)

SITE = 01

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLODIIINAE			
PARAPHAENOCLODIUS SP			

LARVAE			54
SIMULIIDAE			
UNIDENTIFIED			

PUPAE			18
EMPIDIDAE			
UNIDENTIFIED			

LARVAE		18	
ANTHOMYIIDAE			
LIMNOPHORA SP			

LARVAE		36	
LIMNOPHORA DISCRETA			

LARVAE			18
MUSCIDAE			
UNIDENTIFIED			

LARVAE			18

2.4.5.330

APPENDIX C-13-2 (Continued)

SITE = 02

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
NEMATODA	36	54	18
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE			36
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
ADULTS	18		18
BAETIS SP			
LARVAE	36		54
COLEOPTERA			
DYTISCIDAE			
UNIDENTIFIED			
LARVAE	36	18	
DIPTERA			
TIPULIDAE			
PEDICIA SP			
LARVAE	18		
CERATOPOGONIDAE			
CULICIDES SP			
PUPAE	18		18
CHIRONOMIDAE			
DIAMESINAE			
UNIDENTIFIED			
LARVAE	18		
DIAMESA SP			
LARVAE	72		127

2.4.5.331

APPENDIX C-13-2 (Continued)

SITE = 02

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLADIINAE			
EUKIEFFERIELLA SP			

LARVAE	18	18	
SYMMETRIONOMUS SP			

LARVAE	18		
ORTHOCLADIUS SP			

LARVAE	72	18	54

APPENDIX C-13-2 (Continued)

SITE = 03

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
NEMATODA	72	326	127
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE	163		
VAIDIDAE			
CHAETOGASTER DIASTROPHUS			36
VAIS SP			1
	362	634	145
ARTHROPODA			
CRUSTACEA			
OSTRACODA		507	
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
ADULTS			18
BAETIS SP			
LARVAE	54	163	163
COLEOPTERA			
DYTISCIDAE			
UNIDENTIFIED			
LARVAE	18		72
HYDATIUS SP			
LARVAE		18	

2.4.5.333

APPENDIX C-13-2 (Continued)

SITE = 03

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
TRICHOPTERA			
HYDROPTILIDAE			
HYDROPTILA SP			

LARVAE	18		
DIPTERA			
UNIDENTIFIED			

PUPAE			18
TIPULIDAE			
HOLURUSIA SP			

LARVAE	253	706	543
CERATOPOGONIDAE			
UNIDENTIFIED			

LARVAE	36	127	181
CULICIDAE SP			

PUPAE			18
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	18		18
TANYPODINAE			
PENTANEURINI SP			

LARVAE		127	
LARSIA SP			

LARVAE			54
DIAMESINAE			
DIAMESA SP			

LARVAE			36

2.4.5.334

APPENDIX C-13-2 (Continued)

SITE = 03

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
DIAMESINAE			
PSEUDODIAMESA PERTINAX			

LARVAE		36	18
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE	145	290	145
CHAETOCCLADIUS SP			

LARVAE			18
CORYMONEURA SP			

LARVAE		163	
EUKIEFFERIELLA SP			

LARVAE	326	634	272
METRICHOMENUS SP			

LARVAE			18
ORTHOCLADIUS SP			

LARVAE	453	1231	706
PARAPHAENOCCLADIUS SP			

LARVAE	91	36	127
THIENEMANNIELLA SP			

LARVAE			18

2.4.5.335

APPENDIX C-13-2 (Continued)

SITE = 03

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
CHIRONOMINAE			
PHAENOPSECTRA PHAENOPSECTRA			

LARVAE		127	
MICROPSECTRA SP			

LARVAE	91	1303	434
STRATIOMYIDAE			
EUPATYPHUS SP			

LARVAE		18	
STRATIOMYS SP			

LARVAE	19		
ANTHOMYIIDAE			
LIMNOPHORA AEQUIFRONS			

LARVAE		16	
MUSCIDAE			
UNIDENTIFIED			

LARVAE			18

2.4.5.336

APPENDIX C-13-2 (Continued)

SITE = 04

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXLN	REP A	REP B	REP C
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE	16	36	
ARTHROPODA			
ARACHNOIDEA			
ACARI			18
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
BAETIS SP			
LARVAE		18	
DIPTERA			
CHIRONOMIDAE			
UNIDENTIFIED			
PUPAE			54
DIAMESINAE			
PSEUDODIAMESA PERTINAX			
LARVAE		18	
ORTHOCLADIINAE			
UNIDENTIFIED			
LARVAE	18		
EUKIEFFERTIELLA SP			
LARVAE	36		
ORTHOCLADIUS SP			
LARVAE	36		18
PARAPHAENOCCLADIUS SP			
LARVAE		18	

2.4.5.337

APPENDIX C-13-2 (Continued)

SITE = 04

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLADIINAE			
PARAMETRIGONEMUS SP			

LARVAE		18	18
THIENEMANNIELLA SP			

LARVAE		18	
CHIRONOMINAE			
PHAENOPSECTRA PHAENOPSECTRA			

LARVAE			18
SIMULIIDAE			
UNIDENTIFIED			

LARVAE	18		

2.4.5.338

APPENDIX C-13-2 (Continued)

SITE = 05

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON

REP A

REP B

REP C

NEMATODA

2263

4416

2045

MOLLUSCA

GASTROPODA

UNIDENTIFIED

18

BASOMMATOPHORA

PHYSIDAE

PHYSA SP

18

PLANORBIDAE

UNIDENTIFIED

72

72

GYRAULUS SP

36

ANNELIDA

HIRUDINEA

RHYACHOODELLIDA

GLOSSIPHONIIDAE

HELOSDELLA STAGNALIS

18

OLIGOCHAETA

HAPLOTAXIDA

ENCHYTRAEIDAE

18

TUBIFICIDAE

UNIDENTIFIED SP. 1

579

453

3077

ILYODRILUS TEMPLETONI

398

308

1611

2.4.5.339

APPENDIX C-13-2 (Continued)

SITE = 05

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
TUBIFICIDAE			
LIMNODRILUS SP. 1			
-----	36		
LIMNODRILUS HOFFMEISTERI			

TYPICAL	72	163	
LIMNODRILUS UDEKENIANUS			
-----		18	
RHYACODRILINAE SP			
-----	54	54	561
RHYACODRILINAE SP. 1			
-----	13	91	
IMMATURES WITH CAP. CHAETAE SP			
-----	4018	3928	4670
IMMATURES W/O CAP. CHAETAE SP			
-----	1973	2118	2172
ARTHROPODA			
ARACHNOIDEA			
ACARI		163	109
CRUSTACEA			
OSTRACODA		109	

2.4.5.340

APPENDIX C-13-2 (Continued)

SITE = 05

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
CRUSTACEA			
AMPHIPODA			
TALITRIDAE			
HYALELLA AZTECA			
		434	489
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
BAETIS SP			
LARVAE		72	199
ODONATA			
ZYGOPTERA			
COENAGRIONIDAE			
UNIDENTIFIED			
LARVAE	54		109
ARGIA SP			
LARVAE	36	72	72
COLEOPTERA			
DYTISCIDAE			
UNIDENTIFIED			
LARVAE	18		
AGABUS SP			
LARVAE	18		
DERONECTES SP			
LARVAE			127
DERONECTES SP			
ADULTS	91		
HYDATICUS SP			
LARVAE		18	

2.4.5.341

APPENDIX C-13-2 (Continued)

SITE = 05

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

2.4.5.342

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
COLEOPTERA			
DYTISCIDAE			
RHANTUS SP			

LARVAE			18
TRICHOPTERA			
HYDROPSYCHIDAE			
HYDROPSYCHE SP			

LARVAE		18	18
HYDROPTILIDAE			
HYDROPTILA SP			

LARVAE		1140	72
DIPTERA			
UNIDENTIFIED			

PUPAE		18	
TIPULIDAE			
HOLBRUSIA SP			

LARVAE	54	54	72
DIXIDAE			
DIXA SP			

LARVAE		18	18
CERATOPOGONIDAE			
UNIDENTIFIED			

LARVAE	1484	3928	1032
UNIDENTIFIED			

PUPAE	18		
CULICOIDES SP			

PUPAE			18

APPENDIX C-13-2 (Continued)

SITE = 05

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	18		
TANYPODINAE			
PENTANEURINI SP			

LARVAE		18	
LABRUNDINIA SP			

LARVAE	18		
THIENEANNINHYIA GROUP SP			

LARVAE	18		18
DIAMESINAE			
DIAMESINAE SP. 1			

LARVAE	36	18	
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE	54	199	
CHAETOCCLADIUS SP			

LARVAE			18
CORYMONEURA SP			

LARVAE	18		
CRICOTOPUS CRICOTOPUS BICINCTUS			

LARVAE		36	

2.4.5.343

APPENDIX C-13-2 (Continued)

SITE = 05

SITE DESC = HEADWATERS

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCCLADIINAE			
EUKIEFFERSIELLA SP			
LARVAE	253	471	127
METRIGONEMUS SP			
LARVAE		18	
ORTHOCCLADIUS SP			
LARVAE	471	742	181
PARAMETRIGONEMUS SP			
LARVAE		36	
THIENEMANNIELLA SP			
LARVAE	18		18
CHIRONOMINAE			
CRYPTOCHIRONOMUS SP			
LARVAE		18	
MICROPSECTRA SP			
LARVAE	253	543	181
SIMULIIDAE			
UNIDENTIFIED			
LARVAE	724	869	235

2.4.5.344

APPENDIX C-13-2 (Continued)

SITE = 06

SITE DESC = ON TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE			18
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
HEPTAGENIIDAE			
EPEORUS SP			

LARVAE	18		
DIPTERA			
UNIDENTIFIED			

LARVAE		18	
CERATOPOGONIDAE			
UNIDENTIFIED			

LARVAE	18		36
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE			36
DIAPYCNIDAE			
DIAPYCNUS SP			

LARVAE	18		
ORTHOCLODIIDAE			
UNIDENTIFIED			

LARVAE			36
GYMNOPHETIDONEMUS SP			

LARVAE			18
ORTHOCLODIUS SP			

LARVAE	36	18	18

2.4.5.345

APPENDIX C-13-2 (Continued)

SITE = 06

SITE DESC = UN TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON

REP A

REP B

REP C

ARTHROPODA

INSECTA

DIPTERA

CHIRONOMIDAE

CHIRONOMINAE

MICROPSECTRA SP

LARVAE

16

APPENDIX C-13-2 (Continued)

SITE = 07

SITE DESC = ON TRACT C-4

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
NEMATODA	18	18	
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE	326	235	199
ARTHROPODA			
ARACHNIDEA			
ACARI			18
CRUSTACEA			
OSTRACODA		109	
INSECTA			
COLLEMBOLA		18	
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
ADULTS			54
BAETIS SP			
LARVAE	272	453	398
ODONATA			
ZYGOPTERA			
COENAGRIONIDAE			
AFROIA SP			
LARVAE		18	
COLEOPTERA			
DYTISCIDAE			
UNIDENTIFIED			
LARVAE	18	109	18

2.4.5.347

APPENDIX C-13-2 (Continued)

SITE = 07

SITE DESC = UN TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
COLEOPTERA			
DYTISCIDAE			
HYDROPHORUS SP			

LARVAE		18	
HYDATIUS SP			

LARVAE		36	
HYDROPHILIDAE			
UNIDENTIFIED			

LARVAE			54
DIPTERA			
UNIDENTIFIED			

PUPAE		217	
TIPULIDAE			
DENDROBIA SP			

LARVAE			18
HOLURUSIA SP			

LARVAE	18	18	18
UNIDENTIFIED			

LARVAE	199	163	36
CULICIDIDS SP			

PUPAE	54		54
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	109	91	127

APPENDIX C-13-2 (Continued)

SITE = 07

SITE DESC = DM TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
TANYPODINAE			
THIENEMANNIHYIA GROUP SP			

LARVAE			18
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE	91	18	18
CORYNOVEURA SP			

LARVAE			18
EUKIEFFERIELLA SP			

LARVAE		36	72
ORTHOCLADIUS SP			

LARVAE		72	145
PARAPHAENOCCLADIUS SP			

LARVAE	72	127	16
PARAMETRIONEMUS SP			

LARVAE	18	127	
PSEUDOSHITTIA SP			

LARVAE	18		
CHIRONOMINAE			
PHAENOPSECTRA PHAENUPSECTRA			

LARVAE	18		

2.4.5.349

APPENDIX C-13-2 (Continued)

SITE = 07

SITE DESC = ON TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
CHIRONOMINAE			
MICROPSECTRA SP			

LARVAE	18	54	
EMPIDIDAE			
HEMERODROMIA SP			

LARVAE	36		54
HEMERODROMIA SP			

PUPAE	18		36
DOLICHOPODIDAE			
HYDROPHORUS SP			

LARVAE		18	
MUSCIDAE			
UNIDENTIFIED			

LARVAE			18

APPENDIX C-13-2 (Continued)

SITE = 08

SITE DESC = ON TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE			18
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
BAETIS SP			

LARVAE		18	
DIPTERA			
CERATOPOGONIDAE			
UNIDENTIFIED			

LARVAE	18		
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	18		
ORTHOCLADIIDAE			
KRENSHATTIA SP			

LARVAE			18
ORTHOCLADIUS SP			

LARVAE			18
PARAMETRUCVENUS SP			

LARVAE		18	

2.4.5.351

APPENDIX C-13-2 (Continued)

SITE = 09

SITE DESC = UN TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
NEMATODA	36	398	181
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
HAPLOTAXIDAE			
HAPLOTAXIS SP			109

ENCHYTRAEIDAE	2263	1430	416
TUBIFICIDAE			
IMMATURES WITH CAP. CHAETAE SP			
-----	18		
NAIDIDAE			
NAIS SP			
-----	1321	1376	1086
LUMBRICULIDA			
LUMBRICULIDAE			
UNIDENTIFIED			
-----		109	54
ARTHROPODA			
CRUSTACEA			
OSTRACODA		54	
INSECTA			
COLLEMBOLA	18		
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
-----	36		18
ADULTS			

APPENDIX C-13-2 (Continued)

SITE = 09

SITE DESC = ON TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON

REP A REP B REP C

ARTHROPODA

INSECTA

Ephemeroptera

Baetidae

Baetis sp

LARVAE

615

380

181

Plecoptera

UNIDENTIFIED

LARVAE

18

Coleoptera

Dytiscidae

UNIDENTIFIED

LARVAE

18

18

Diptera

UNIDENTIFIED

PUPAE

489

Tipulidae

Dryosia sp

LARVAE

18

Ceratopogonidae

UNIDENTIFIED

LARVAE

670

959

199

Culicoides sp

PUPAE

145

145

Chironomidae

UNIDENTIFIED

PUPAE

760

706

Diatoms

2.4.5.253

APPENDIX C-13-2 (Continued)

SITE = 09

SITE DESC = DN TRACT C-A

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCCLADIINAE			
UNIDENTIFIED			
LARVAE	91	109	290
CHAETOCCLADIUS SP			
LARVAE	54	91	380
CRICOTOPUS CRICOTOPUS			
LARVAE			54
EUKIEFFERIELLA SP			
LARVAE	398	398	290
KRENSMITTIA SP			
LARVAE	54		145
METRIDCNEMUS SP			
LARVAE	36	36	
ORTHOCCLADIUS SP			
LARVAE	1303	796	3330
PARAPHAENDOCCLADIUS SP			
LARVAE		18	
PARAPETRIDCNEMUS SP			
LARVAE	290	145	344

2.4.5.354

APPENDIX C-13-2 (Continued)

SITE = 09

SITE DESC = ON TRACT C-A COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLADIINAE			
THIENEMANNIELLA SP			

LARVAE	290	18	199
CHIRONOMINAE			
PHAENOPSECTRA PHAENOPSECTRA			

LARVAE	36		
MICROPSECTRA SP			

LARVAE	344	199	235
STRATIOMYIDAE			
EUPARYPHUS SP			

LARVAE			18
EMPIDIDAE			
CLINOCERA SP			

LARVAE	18		
HEMERODROMIA SP			

LARVAE	199	91	235
HEMERODROMIA SP			

PUPAE	91		163
MUSCIDAE			
UNIDENTIFIED			

LARVAE			18

2.4.5.355

APPENDIX C-13-2 (Continued)

SITE = 13

SITE DESC = NEAR TRACT C-A COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
NEMATODA	18		91
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE			18
TUBIFICIDAE			
LIMNODRILUS HOFFMEISTERI			

TYPICAL	18		
IMMATURES W/O CAP. CHAETAE SP			
-----	18		91
NAIDIDAE			
NAIS SP			
-----			18
ARTHROPODA			
INSECTA			
DIPTERA			
UNIDENTIFIED			

PUPAE		18	
TIPULIDAE			
DRYUSIA SP			

LARVAE			18
HOLDRUSIA SP			

LARVAE	36		145
PSYCHODIDAE			
UNIDENTIFIED			

LARVAE		18	

2.4.5.356

APPENDIX C-13-2 (Continued)

SITE = 13

SITE DESC = NEAR TRACT C-A COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON

REP A

REP B

REP C

ARTHROPODA

INSECTA

DIPTERA

CERATOPOGONIDAE

UNIDENTIFIED

LARVAE

36

CHIRONOMIDAE

ORTHOCLADIINAE

PARAPHAENOCADIUS SP

LARVAE

18

PARAMETRIONEMUS SP

LARVAE

18

EMPIDIDAE

HEMERODROMIA SP

LARVAE

18

2.4.5.357

APPENDIX C-13-2 (Continued)

SITE = 14

SITE DESC = NEAR TRACT C-A COLLECTION METHOD = EKMAN DREDGE

CONVERSION FACTOR APPLIED= 44.4

TAXON	REP A	REP B	REP C
NEMATODA	89	89	178
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE	1732	799	1820
TUBIFICIDAE			
UNIDENTIFIED SP. 1			
-----		44	
NAIDIDAE			
NAIS SP			
-----		44	
ARTHROPODA			
CRUSTACEA			
OSTRACODA		44	
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
CALLIBAETIS SP			

LARVAE	1332	888	844
ODONATA			
ZYGOPTERA			
COENAGRIONIDAE			
UNIDENTIFIED			

LARVAE			44
AMPHIAGRION SP			

ADULTS	444		44
COLEOPTERA			
DYTISCIDAE			
RHANTUS SP			

LARVAE			44

2.4.5.358

APPENDIX C-13-2 (Continued)

SITE = 14

SITE DESC = NEAR TRACT C-A COLLECTION METHOD = EKMAN DREDGE

CONVERSION FACTOR APPLIED = 44.4

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CERATOPUSONIDAE			
UNIDENTIFIED			
LARVAE	1066	533	710
CULICIDIDES SP			
LARVAE			44
CHIRONOMIDAE			
UNIDENTIFIED			
PUPAE		44	
TANYPODINAE			
PENTANEURINI SP			
LARVAE		133	
PSECTROTANYPUS SP			
LARVAE	44	133	
THIENEMANNIHYIA GROUP SP			
LARVAE	222		44
ORTHOCLADIINAE			
UNIDENTIFIED			
LARVAE	44		44
METRICONEMUS SP			
LARVAE			44
ORTHOCLADIUS SP			
LARVAE	133		

2.4.5.359

APPENDIX C-13-2 (Continued)

SITE = 14

SITE DESC = NEAR TRACT C-A COLLECTION METHOD = EKMAN DREDGE

CONVERSION FACTOR APPLIED= 44.4

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
CHIRONOMINAE			
UNIDENTIFIED			

LARVAE	44		
PARATENDIPES SP			

LARVAE	44		
TANYTARSINI SP			

LARVAE	44		
MICROPSECTRA SP			

LARVAE	1820	666	1288
RHEOTANYTARSUS SP			

LARVAE	44		

2.4.5.360

APPENDIX C-13-2 (Continued)

SITE = 19

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
NEMATODA	36	54	54
MOLLUSCA			
GASTROPODA			
BASOMMATOPHORA			
LYMAEIDAE			
LYMAEA SP			
-----		235	471
ANNELEIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE			18
TUBIFICIDAE			
UNIDENTIFIED SP. 1			
-----	72	145	652
LIMNODRILUS HOFFMEISTERI			

TYPICAL			18
IMMATURES WITH CAP. CHAETAE SP			
-----	1086	977	2244
IMMATURES W/O CAP. CHAETAE SP			
-----		91	398
ARTHROPODA			
ARACHNOIDEA			
ACARI	1140	1520	72
CRUSTACEA			
OSTRACODA		235	

2.4.5.361

APPENDIX C-13-2 (Continued)

SITE = 19

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
CRUSTACEA			
AMPHIPODA			
TALITRIDAE			
HYALFLLA AZTECA			
-----		36	
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
CALLIBAETIS SP			

LARVAE			18
ODONATA			
ZYGOPTERA			
COENAGRIONIDAE			
UNIDENTIFIED			

LARVAE	634	18	18
ARGIA SP			

LARVAE	127	706	
COLEOPTERA			
UNIDENTIFIED			

ADULTS		72	
DYTISCIDAE			
UNIDENTIFIED			

LARVAE	36		36
DERONECTES SP			

LARVAE	36		91
HYDROPHORUS SP			

LARVAE		18	
ELMIDAE			
DUBIRAPHIA SP			

ADULTS	18		

APPENDIX C-13-2 (Continued)

SITE = 19

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON

REP A

REP B

REP C

ARTHROPODA

INSECTA

TRICHOPTERA

HYDROPTILIDAE

HYDROPTILA SP

LARVAE

91

163

91

DIPTERA

UNIDENTIFIED

PUPAE

416

CERATOPUSGONIDAE

UNIDENTIFIED

LARVAE

5195

3168

959

CULICIDIDES SP

LARVAE

12

CHIRONOMIDAE

UNIDENTIFIED

PUPAE

91

91

TANYPODINAE

THIENEMANNIHYIA GROUP SP

LARVAE

91

ORTHOCCLADIINAE

UNIDENTIFIED

LARVAE

54

EUKIFFERIELLA SP

LARVAE

434

815

ORTHOCCLADIUS SP

LARVAE

3385

3765

2263

2.4.5.363

APPENDIX C-13-2 (Continued)

SITE = 19

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLADIINAE			
PARAPHAENOCADIUS SP			

LARVAE		91	
CHIRONOMINAE			
PARATENDIPES SP			

LARVAE	815	3041	742
MICROPSECTRA SP			

LARVAE	869	905	2425
SIMULIIDAE			
UNIDENTIFIED			

LARVAE	10154	21702	2751
UNIDENTIFIED			

PUPAE		2009	
SIMULIUM SP			

PUPAE	815		217
STRATIOMYIDAE			
EUPARYPHUS SP			

LARVAE		18	

2.1.5.26A

APPENDIX C-13-2 (Continued)

SITE = 20

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
NEMATODA	109	54	18
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
TUBIFICIDAE			
IMMATURES W/O CAP. CHAETAE SP			
-----	109	18	54
ARTHROPODA			
ARACHNIDEA			
ACARI	308	181	91
INSECTA			
COLEOPTERA			
UNIDENTIFIED			

LARVAE	18		
UNIDENTIFIED			

ADULTS		18	
DYTISCIDAE			
UNIDENTIFIED			

LARVAE			18
DERGNECTES SP			

LARVAE			18
TRICHOPTERA			
HYDROPTILIDAE			
HYDROPTILA SP			

LARVAE			18
DIPTERA			
UNIDENTIFIED			

PUPAE		18	

APPENDIX C-13-2 (Continued)

SITE = 20

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CERATOPOSSONIDAE			
UNIDENTIFIED			

LARVAE	217	253	163
CHIRONOMIDAE			
UNIDENTIFIED			

PUPAE	18		
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE	18		18
CORYNONEURA SP			

LARVAE	18		
CRICOTOPUS SP			

LARVAE	91		18
CRICOTOPUS ISOCLEADUS			

LARVAE	54		
ORTHOCLEADUS SP			

LARVAE	393	36	72
PARAPHAENOCLEADUS SP			

LARVAE	36		
CHIRONOMINAE			
UNIDENTIFIED			

LARVAE	18		

APPENDIX C-13-2 (Continued)

SITE = 20

SITE DESC = YELLOW CRFCK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
CHIRONOMINAE			
MICROPSECTRA SP			

LARVAE	18		
SIMULIIDAE			
UNIDENTIFIED			

LARVAE	109	308	308
UNIDENTIFIED			

PUPAE	36	72	

2.4.5.367

APPENDIX C-13-2 (Continued)

SITE = 21

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
NEMATODA	36		36
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
TUBIFICIDAE			
LIMNODRILUS UDEKEMIANUS			18
IMMATURES W/O CAP. CHAETAE SP	18		
NAIDIDAE			
NAIS SP	561		145
ARTHROPODA			
ARACHNOIDEA			
ACARI	1937	851	181
INSECTA			
COLLEMBOLA	217	54	36
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
ADULTS			18
EPHEMERELLIDAE			
EPHEMERELLA SP			
LARVAE		18	
ODONATA			
UNIDENTIFIED			
LARVAE	18		

APPENDIX C-13-2 (Continued)

SITE = 21

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
ODONATA			
ANISOPTERA			
GOMPHIDAE			
UNIDENTIFIED			

LARVAE	18		
PLECOPTERA			
SYSTELLOGNATHA			
PERLODIDAE			
ISOPERLA SP			

LARVAE			18
COLEOPTERA			
UNIDENTIFIED			

LARVAE	18		
DYTISCIDAE			
UNIDENTIFIED			

LARVAE	18	18	
TRICHOPTERA			
HYDROPTILIDAE			
UNIDENTIFIED			

LARVAE	13		
LEPIDOPTERA			
PYRALIDAE			
UNIDENTIFIED			

LARVAE		36	
DIPTERA			
UNIDENTIFIED			

PUPAE			18
CERATOPOGONIDAE			
UNIDENTIFIED			

LARVAE	597	145	91

APPENDIX C-13-2 (Continued)

SITE = 21

SITE DESC = YELLOW CREEK COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED = 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
TANYPODINAE			
PENTANEURINI SP			

LARVAE			18
THIENEMANNIHYIA GROUP SP			

LARVAE			18
ORTHOCLADIINAE			
UNIDENTIFIED			

LARVAE	163		18
CORYNONEURA SP			

LARVAE			18
CRICOTOPUS SP			

LARVAE	2208	525	54
CRICOTOPUS CRICOTOPUS			

LARVAE			235
CRICOTOPUS ISOCLEADUS			

LARVAE	91		36
EUKIEFFERIELLA SP			

LARVAE	163	54	54
ORTHOCLADIUS SP			

LARVAE	579	181	398

2.4.5.370

APPENDIX C-13-2 (Continued)

SITE = 21

SITE DESC = YELLOW CREEK

COLLECTION METHOD = ELLIPSE SURBER

CONVERSION FACTOR APPLIED= 18.1

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLADIINAE			
PARAPHAENOCLADIUS SP			

LARVAE		127	362
ORTHOCLADIINAE SP. 1			

LARVAE			18
CHIRONOMINAE			
MICROPSECTRA SP			

LARVAE			18
RHEJTANYTARSUS SP			

LARVAE		18	36
SIMULIIDAE			
UNIDENTIFIED			

LARVAE	1756	1303	1701
UNIDENTIFIED			

PUPAE	326	344	
SIMULIUM SP			

PUPAE			326

2.4.5.371

APPENDIX C-13-2 (Continued)

SITE = 22 SITE DESC = YELLOW CREEK COLLECTION METHOD = TALL CIRCLE SURGER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE		20	
TUBIFICIDAE			
LIMNODRILUS SP. 1		20	
IMMATURES WITH CAP. CHAETAE SP			20
IMMATURES W/O CAP. CHAETAE SP	234	429	215
NAIDIDAE			
VAIS SP	156		20
ARTHROPODA			
INSECTA			
HEMIPTERA			
CORIXIDAE			
UNIDENTIFIED			
LARVAE		20	
COLEOPTERA			
DYTISCIDAE			
UNIDENTIFIED			
LARVAE			20
DIPTERA			
UNIDENTIFIED			
PUPAE		39	
CERATOPOGONIDAE			
UNIDENTIFIED			
LARVAE	20		20

2.4.5.372

APPENDIX C-13-2 (Continued)

SITE = 22 SITE DESC = YELLOW CREEK COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED= 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
DIAMESINAE			
ODONTOMESA SP			

LARVAE	20		
ORTHOCLADIINAE			
ORTHOCLADIUS SP			

LARVAE		39	

2.4.5.373

APPENDIX C-13-2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975
(D-frame samples are expressed as organisms/sample.)

Sampling Method	STATION 23 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Nematoda			
Oligochaeta			
Naididae			
Nais			
Tubificidae			
<u>Ilyodrilus templetoni</u>			
<u>Limnodrilus claparedeianus</u>			
<u>Limnodrilus hoffmeisteri</u>	1		
<u>Tubifex tubifex</u>			
Immature tubificids without capilliform chaetae	4	-	2
Insecta			
Collembola			
Diptera			
Ceratopogonidae			
Chironomidae		1	3
Chironomidae pupae			
Tanypodinae			
<u>Thienemannimyia</u>			

¹DF = D-Frame Sampler

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 23		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
<u>Diamesinae</u>			
<u>Diamesa</u>			
<u>Monodiamesa</u>	1		
<u>Odontomesa</u>			
<u>Orthocladiinae</u>			
<u>Cricotopus</u>			
<u>Cricotopus (Cricotopus)</u>			
<u>Eukiefferiella</u>			
<u>Chironomiinae</u>	4		3
<u>Cryptochironomus</u>	1		
<u>Microtendipes</u>	2	1	6
<u>Paracladopelma</u>			
<u>Phaenopsectra</u>			
<u>Polypedilium fallax</u> gp.			
<u>Polypedilium tripodura</u> gp.			
<u>Stictochironomus</u>	3		
<u>Cladotanytarsus</u>			
<u>Rneotanytarsus</u>	2		
<u>Empididae</u>			
<u>Clinocera</u>			
<u>Rhagionidae</u>			
<u>Atherix variegata</u>			
<u>Simuliidae</u>			
<u>Simuliidae pupae</u>			
<u>Tipulidae</u>			
<u>Limnophila</u>			
<u>Acari</u>	1		
<u>Lepidoptera</u>			

APPENDIX C-12-2 (Continued)

Sampling Method	STATION 23 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Pyrallidae			
Ephemeroptera			
Heptageniidae			
<u>Rhithrogena</u>			
<u>Stenonema</u>			
<u>Heptagenia</u>		1	
<u>Baetidae</u>			
<u>Baetis</u>		2	
Siphonuridae			
Tricorythidae			
Tricorythodes	1		
Ephemerellidae			
<u>Ephemerella</u>	6	11	3
Odonata			
Gomphidae			
<u>Ophiogomphus</u>			
Plecoptera			
Perlodidae			
<u>Isogenus</u>			
<u>Isoperla</u>			
<u>Isoperla fulva</u>	1		
Perlidae			
<u>Claassenia</u>			
<u>Claassenia sabulosa</u>			
Hemiptera			
Corixidae			
Coleoptera			
Elmidae			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 23		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
<u>Duberaphia</u>			
<u>Zaitzavia</u>			
<u>Trichoptera</u>			
<u>Brachycentridae</u>			
<u>Brachycentrus</u>	1		
<u>Micrasema</u>			
<u>Hydropsychidae</u>			
<u>Hydropsyche</u>			
<u>Cheumatopsyche</u>			
<u>Hydropsyche pupae</u>			
<u>Hydroptilidae</u>			
<u>Hydroptila</u>			
<u>Glossosomatidae</u>			
<u>Agapetus</u>			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 24 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Nematoda			
Oligochaeta			
Naididae			
Nais			
Tubificidae			
<u>Ilyodrilus templetoni</u>			
<u>Limnodrilus claparedeianus</u>			
<u>Limnodrilus hoffmeisteri</u>	23	7	9
<u>Tubifex tubifex</u>			
Immature tubificids without capilliform chaetae	11	8	2
Insecta			
Collembola			
Diptera			
Ceratopogonidae			
Chironomidae			
Chironomidae pupae			1
Tanypodinae			
<u>Thienemannimyia</u>			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 24 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Diamesinae			
Diamesa			
Monodiamesa	1		1
Odontomesa			
Orthoclaadiinae	3		
Cricotopus	5		
Cricotopus (Cricotopus)	1		
Eukiefferiella			
Chironomiinae	3	3	5
Cryptochironomus		1	
Microtendipes	16	8	12
Paracladopelma			
Phaenopsectra			
Polypedilium fallax gp.			
Polypedilium tripodura gp.	1	1	
Stictochironomus	1		
Cladotanytarsus	10		
Rheotanytarsus	4		1
Empididae			
Clinocera			
Rhagionidae			
Atherix variegata			
Simuliidae		1	
Simuliidae pupae			
Tipulidae			
Limnophila			
Acari			
Lepidoptera			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 24 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Pyralidae	2		1
Ephemeroptera			
Heptageniidae		2	
Rhithrogena	1		1
Stenonema			
Heptagenia			
Baetidae			
Baetis	4	3	2
Siphonuridae			
Tricorythidae	2	1	
Tricorythodes			
Ephemerellidae			
Ephemerella	14	25	15
Odonata			
Gomphidae			
Ophiocomphus			
Plecoptera			
Perlodidae			
Isogenus			
Isoperla		1	
Isoperla fulva			
Perlidae			
Claassenia			
Claassenia sabulosa			
Hemiptera			
Corixidae			
Coleoptera			
Elmidae			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 24		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
<u>Duberaphia</u>			
<u>Zaitzavia</u>			
<u>Trichoptera</u>			
<u>Brachycentridae</u>			
<u>Brachycentrus</u>			
<u>Micrasema</u>			
<u>Hydropsychidae</u>			
<u>Hydropsyche</u>	11	3	
<u>Cheumatopsyche</u>			1
<u>Hydropsyche pupae</u>			
<u>Hydroptilidae</u>			
<u>Hydroptila</u>		1	
<u>Glossosomatidae</u>			
<u>Agapetus</u>	3		

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 25 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Nematoda			
Oligochaeta			
Naididae			
Nais	2		1
Tubificidae			
<u>Ilvodrillus templetoni</u>			
<u>Limnodrilus claparedeianus</u>	2		
<u>Limnodrilus hoffmeisteri</u>	44	7	21
<u>Tubifex tubifex</u>			
Immature tubificids without capilliform chaetae	26	1	7
Insecta			
Collembola			
Diptera		2	
Ceratopogonidae			
Chironomidae			
Chironomidae pupae			
Tanypodinae			
<u>Thienemannimyia</u>	2		1

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 25 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Diamesinae			
Diamesa			
Monodiamesa	7	2	
Odontomesa			
Orthocladiinae	2		
Cricotopus			
Cricotopus (Cricotopus)	5		
Eukierferiella	2		
Chironomiinae	2	4	4
Cryptochironomus	2	1	1
Microtendipes	14	14	29
Paracladocelma	2		
Phaenopsectra			
Polypedilium fallax gp.	2		
Polypedilium tripodura gp.	10		
Stictochironomus			
Cladotanytarsus			
Rheotanytarsus		4	1
Empididae	6	1	
Clinocera			
Rhagionidae			
Atherix variegata	1		
Simuliidae	2		1
Simuliidae pupae			
Tipulidae	1	1	
Limnophila			
Acari			
Lepidoptera			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 25 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Pyralidae	6	4	1
Ephemeroptera			
Heptageniidae	1		
Rhithrogena		1	4
Stenonema			
Heptagenia			
Baetidae			
Baetis	20	3	9
Siphonuridae	4		
Tricorythidae			
Tricorythodes	27	8	7
Ephemerellidae	58	23	85
Ephemerella			
Odonata			
Gomphidae			
Ophiocomphus			
Plecoptera			
Perlodidae	7		
Isogenus	2	1	
Isoperla	3	3	
Isoperla fulva			
Perlidae			
Claassenia			
Claassenia sabulosa			
Hemiptera			
Corixidae			
Coleoptera			
Elmidae	1		

2.4.5.384

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 25		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
<u>Duberaphia</u>			
<u>Zaitzavia</u>			
<u>Trichoptera</u>			
<u>Brachycentridae</u>	20		
<u>Brachycentrus</u>			
<u>Micrasema</u>			
<u>Hydropsychidae</u>			
<u>Hydropsyche</u>	32	33	
<u>Cheumatopsyche</u>	10		
<u>Hydropsyche pupae</u>	4		1
<u>Hydroptilidae</u>			
<u>Hydroptila</u>	4	1	
<u>Glossosomatidae</u>			
<u>Agapetus</u>	4		

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 26 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Nematoda			
Oligochaeta		16	
Naididae			
Nais			
Tubificidae			
<u>Limnodrilus templetoni</u>	1		
<u>Limnodrilus claparedeianus</u>			
<u>Limnodrilus hoffmeisteri</u>		11	2
<u>Tubifex tubifex</u>		7	
Immature tubificids without capilliform chaetae	8		2
Insecta			
Collembola			
Diptera			
Ceratopogonidae			
Chironomidae		1	
Chironomidae pupae			
Tanypodinae			
<u>Thienemannimyia</u>			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 26 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Diamesinae			
<u>Diamesa</u>			
<u>Monodiamesa</u>			
<u>Odontomesa</u>	1	1	1
<u>Orthoclaadiinae</u>			
<u>Cricotopus</u>			
<u>Cricotopus (Cricotopus)</u>			
<u>Eukiefferiella</u>			
<u>Chironomiinae</u>			
<u>Cryptochironomus</u>			
<u>Microtendipes</u>	2	4	3
<u>Paracladopelma</u>			
<u>Phaenopsectra</u>			
<u>Polypedilium fallax</u> gp.	2		
<u>Polypedilium tripodura</u> gp.			
<u>Stictochironomus</u>			
<u>Cladotanytarsus</u>			
<u>Rheotanytarsus</u>	1	1	
<u>Empididae</u>			
<u>Clinocera</u>			
<u>Rhagionidae</u>			
<u>Atherix variegata</u>		1	
<u>Simuliidae</u>		1	
<u>Simuliidae pupae</u>			1
<u>Tipulidae</u>			
<u>Limnophila</u>			
<u>Acari</u>			
<u>Lepidoptera</u>			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 26 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Pyrallidae			
Ephemeroptera			
Heptageniidae	1		
Rhithrogena	1		3
Stenonema			
Heptagenia			
Baetidae			
Baetis	1	6	4
Siphonuridae			
Tricorythidae	3	11	5
Tricorythodes			
Ephemerellidae			
Ephemerella	59	143	133
Odonata			
Gomphidae		3	3
Ophiogomphus			
Plecoptera			
Perlodidae			
Isogenus		1	2
Isoperla		11	4
Isoperla fulva	7		
Perlidae			
Claassenia			1
Claassenia sabulosa	4		
Hemiptera			
Corixidae			
Coleoptera			
Elmidae			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 26		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
<u>Duberaphia</u>			1
<u>Zaitzavia</u>			
<u>Trichoptera</u>			
<u>Brachycentridae</u>			
<u>Brachycentrus</u>			
<u>Micrasema</u>		1	
<u>Hydropsychidae</u>			1
<u>Hydropsyche</u>	16	60	26
<u>Cheumatopsyche</u>	6		
<u>Hydropsyche pupae</u>	2		
<u>Hydroptilidae</u>			
<u>Hydroptila</u>	1		2
<u>Glossosomatidae</u>		1	
<u>Aqapetus</u>			

APPENDIX C-13-2 (Continued)

2.4.5.390

Sampling Method	STATION 27		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Nematoda			
Oligochaeta			
Naididae			
Nais			
Tubificidae			
<u>Ilyodrilus templetoni</u>			
<u>Limnodrilus claparedeianus</u>			
<u>Limnodrilus hoffmeisteri</u>	1		
<u>Tubifex tubifex</u>			
Immature tubificids without capilliform chaetae			
Insecta			
Collembola			
Diptera			
Ceratopogonidae			
Chironomidae	5		
Chironomidae pupae			1
Tanypodinae			
<u>Thienemannimyia</u>			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 27		
	REPLICATE		
	$\frac{A}{DF}$	$\frac{B}{DF}$	$\frac{C}{DF}$
Diamesinae			
Diamesa			
Monodiamesa			
Odontomesa			
Orthocladiinae	1		
Cricotopus			
Cricotopus (Cricotopus)			
Eukiefferiella			
Chironomiinae	1		3
Cryptochironomus			
Microtendipes			
Paracladopelma			
Phaenopsectra			
Polypedilium fallax gp.	3		
Polypedilium tripodura gp.			
Stictochironomus			
Cladotanytarsus			
Rheotanytarsus			
Empididae		3	
Clinocera			
Rhagionidae			
Atherix variegata			
Simuliidae			1
Simuliidae pupae			
Tipulidae		1	
Limnophila			
Acari			
Lepidoptera			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 27 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Pyrallidae			
Ephemeroptera			
Heptageniidae			
<u>Rhithrogena</u>	1		
<u>Stenonema</u>			
<u>Heptagenia</u>			
<u>Baetidae</u>			
<u>Baetis</u>	1	1	1
Siphonuridae			
Tricorythidae			
Tricorythodes			
Ephemerellidae			
<u>Ephemerella</u>	24	41	9
Odonata			
Gomphidae			
<u>Ophiogomphus</u>			
Plecoptera			
Perlodidae			
<u>Isogenus</u>			
<u>Isoperla</u>		3	
<u>Isoperla fulva</u>			
Perlidae			
<u>Claassenia</u>			
<u>Claassenia sabulosa</u>			
Hemiptera			
Corixidae			
Coleoptera			
Elmidae			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 27		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
<u>Duberaphia</u>			
<u>Zaitzavia</u>			
Trichoptera			
Brachycentridae			
<u>Brachycentrus</u>			
<u>Micrasema</u>			
Hydropsychidae			1
<u>Hydropsyche</u>			1
<u>Cheumatopsyche</u>			
Hydropsyche pupae			
Hydroptilidae			
<u>Hydroptila</u>		1	
Glossosomatidae			
<u>Agapetus</u>			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 28		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Nematoda			
Oligochaeta		1	
Naididae			
Nais			
Tubificidae			
<u>Ilyodrilus templetoni</u>			
<u>Limnodrilus claparedeianus</u>			
<u>Limnodrilus hoffmeisteri</u>	1		
<u>Tubifex tubifex</u>			
Immature tubificids without capilliform chaetae			
Insecta			
Collembola			
Diptera			
Ceratopogonidae		1	
Chironomidae		1	
Chironomidae pupae		2	
Tanypodinae			
<u>Thienemannimyia</u>			



APPENDIX C-13-2 (Continued)

Sampling Method	STATION 28		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Diamesinae			
Diamesa			
Monodiamesa	1	1	
Odontomesa			
Orthocladiinae			
Cricotopus			
Cricotopus (Cricotopus)			
Eukiefferiella			
Chironomiinae		2	
Cryptochironomus			5
Microtendipes			
Paracladopelma			1
Phaenopsectra			
Polypedilium fallax gp.			
Polypedilium tripodura gp.			
Stictochironomus			
Cladotanytarsus			
Rheotanytarsus	1		1
Empididae			
Clinocera			
Rhagionidae			
Atherix variegata			
Simuliidae			
Simuliidae pupae			
Tipulidae			
Limnophila			
Acari			
Lepidoptera			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 28		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Pyralidae			
Ephemeroptera			
Heptageniidae			
<u>Rhithrogena</u>			
<u>Stenonema</u>		1	1
<u>Heptagenia</u>			
<u>Baetidae</u>			2
<u>Baetis</u>			
<u>Siphonuridae</u>			2
<u>Tricorythidae</u>			
<u>Tricorythodes</u>			
<u>Ephemerellidae</u>			
<u>Ephemerella</u>			
<u>Odonata</u>			4
<u>Gomphidae</u>			
<u>Ophiogomphus</u>			
<u>Plecoptera</u>			
<u>Perlodidae</u>			
<u>Isogenus</u>			
<u>Isoperla</u>			
<u>Isoperla fulva</u>			1
<u>Perlidae</u>			
<u>Claassenia</u>			
<u>Claassenia sabulosa</u>			
<u>Hemiptera</u>			
<u>Corixidae</u>			
<u>Coleoptera</u>			
<u>Elmidae</u>			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 28		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
<u>Duberaphia</u>			1
<u>Zaitzavia</u>			
Trichoptera			
Brachycentridae			
<u>Brachycentrus</u>			
<u>Micrasema</u>			
Hydropsychidae			
<u>Hydropsyche</u>			
<u>Cheumatopsyche</u>			
Hydropsyche pupae			
Hydroptilidae			
<u>Hydroptila</u>			
Glossosomatidae			
<u>Aqapetus</u>			

APPENDIX C-13-2 (Continued)

STATION 29

REPLICATE

Sampling Method	A <u>CF</u>	B <u>CF</u>	C <u>CF</u>
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Nematoda

Oligochaeta

Neididae

Neis

Tubificidae

Limnodrilus templetoni

Limnodrilus clapparedonianus

Limnodrilus hoffmeisteri

Tubifex tubifex

Immature tubificids without capilliform chaetae

1

Insecta

Collembola

Diptera

Chironomidae

Chironomidae

Chironomidae pupae

Tanyptodinae

Trichomania

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 29		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
<u>Diamesinae</u>			
<u>Diamesa</u>			
<u>Monodiamesa</u>			
<u>Odontomesa</u>			
<u>Ortnoclaadiinae</u>			
<u>Cricotopus</u>			
<u>Cricotopus (Cricotopus)</u>			
<u>Eukiefferiella</u>	1		
<u>Cnironomiinae</u>			
<u>Cryptochironomus</u>			
<u>Microtendipes</u>	1		
<u>Paracladopelma</u>			
<u>Phaenopsectra</u>	2		
<u>Polypedilum fallax</u> gp.			
<u>Polypedilum tripodura</u> gp.			
<u>Sciotechnirionus</u>			
<u>Cladotanytarsus</u>			
<u>Practanytarsus</u>	1		
<u>Empididae</u>			
<u>Clinocera</u>			
<u>Rhagionidae</u>			
<u>Atherix variegata</u>			
<u>Simuliidae</u>		3	19
<u>Simuliidae pupae</u>	1		5
<u>Tipulidae</u>			
<u>Limnephila</u>			
<u>Acari</u>			
<u>Lepidoptera</u>			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 29 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Pyrallidae			
Ephemeroptera			
Heptageniidae			
<u>Rhithrogena</u>	5	4	2
<u>Stenonema</u>			
<u>Heptagenia</u>			
<u>Baetidae</u>		9	
<u>Baetis</u>	5		3
Siphonuridae			
Tricorythidae			
Tricorythodes	2		2
Ephemerellidae			
<u>Ephemerella</u>	39	108	253
Odonata			
Gomphidae			
<u>Ophiocommus</u>			
Plecoptera			
Perlidae			
<u>Isotenus</u>		2	1
<u>Isoperla</u>	1	1	6
<u>Isoperla fulva</u>	3		
Perlidae			
<u>Claassenia</u>			
<u>Claassenia sabulosa</u>			
Hemiptera			
Corixidae			
Coleoptera			
Elmidae			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 29		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
<u>Duberaphia</u>			
<u>Zaitzavia</u>			
<u>Trichoptera</u>			
<u>Brachycentridae</u>			6
<u>Brachycentrus</u>			
<u>Microsera</u>			
<u>Hydropsychidae</u>			
<u>Hydropsyche</u>	2	2	10
<u>Cheumatopsyche</u>			3
<u>Hydropsyche pupae</u>			
<u>Hydroptilidae</u>			
<u>Hydroptila</u>			1
<u>Glossosomatidae</u>			
<u>Acanetis</u>			

APPENDIX C-13-2 (Continued)

SITE = 30 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
NEMATODA	20		
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE	39		
TUBIFICIDAE			
LIMNODRILUS HOFFMEISTERI			

TYPICAL			20
NAIDIDAE			
NAIS SP			

	20		
ARTHROPODA			
ARACHNIDIDEA			
ACARI	20		
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			

ADULTS			59
BAETIS SP			

LARVAE		78	59
HEPTAGENIIDAE			
RHITHROGENA SP			

LARVAE	20	20	
EPHEMERELLIDAE			
EPHEMERELLA SP			

LARVAE		78	78

2.4.5.402

APPENDIX C-13-2 (Continued)

SITE = 30 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
TRICHOPTERA			
HYDROPSYCHIDAE			
UNIDENTIFIED			

LARVAE			20
HYDROPSYCHE SP			

LARVAE		59	59
DIPTERA			
TIPULIDAE			
UNIDENTIFIED			

LARVAE		20	
DRYOSIA SP			

LARVAE			20
LYNPHILA SP			

LARVAE	20		
CERATOPOGONIDAE			
UNIDENTIFIED			

LARVAE	39		
CHIRONOMIDAE			
ORTHOCLADIIDAE			
EUKIFFERIELLA SP			

LARVAE		20	
ORTHOCLADIUS SP			

LARVAE			20
THIEMANNIELLA SP			

LARVAE	39		

2.4.5.403

APPENDIX C-13-2 (Continued)

SITE = 30

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
DIPTERA			
CHIRONOMIDAE			
ORTHOCLADIINAE			
ORTHOCLADIINAE SP. 1			
LARVAE			20
CHIRONOMINAE			
MICROTENDIPES SP			
LARVAE			20
POLYPEDILUM TRIPODURA GRP.			
LARVAE			20
SIMULIIDAE			
UNIDENTIFIED			
LARVAE	137	2282	1619

2.4.5.404

APPENDIX C-13-2 (Continued)

SITE = 31 SITE DESC = WHITE RIVER COLLECTION METHOD = TALL CIRCLE SURBER CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ANNELIDA			
OLIGOCHAETA			
HAPLOTAXIDA			
ENCHYTRAEIDAE	20		
TUBIFICIDAE			
LIMNODRILUS CLAPAREDEIANUS			
TYPICAL		20	
LIMNODRILUS HOFFMEISTERI			
TYPICAL		98	
IMMATURES W/O CAP. CHAETAE SP		39	
ARTHROPODA			
INSECTA			
EPHEMEROPTERA			
BAETIDAE			
UNIDENTIFIED			
ADULTS			59
BAETIS SP			
LARVAE	98	156	
HEPTAGENIIDAE			
RHITHROGENA SP			
LARVAE	20	39	
EPHEMERELLIDAE			
EPHEMERELLA SP			
LARVAE		78	20
TRICHOPTERA			
HYDROPSYCHIDAE			
HYDROPSYCHE SP			
LARVAE	39		

2.4.5.405

APPENDIX C-13-2 (Continued)

SITE = 31

SITE DESC = WHITE RIVER

COLLECTION METHOD = TALL CIRCLE SURBER

CONVERSION FACTOR APPLIED = 19.5

TAXON	REP A	REP B	REP C
ARTHROPODA			
INSECTA			
TRICHOPTERA			
HYDROPTILIDAE			
HYDROPTILA SP			

LARVAE	20		
DIPTERA			
TIPULIDAE			
ORMOSIA SP			

LARVAE			20
CERATOPOGONIDAE			
UNIDENTIFIED			

LARVAE			20
CHIRONOMIDAE			
ORTHOCCLADIINAE			
CRICOTOPUS ISOCLADIUS			

LARVAE	20	39	
THIENEMANNIELLA SP			

LARVAE		20	
SIMULIIDAE			
UNIDENTIFIED			

LARVAE	78	59	20
DOLICHOPDOIDAE			
HYDRIPHURUS SP			

LARVAE	20		

2.4.5.406

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 32		
	REPLICATE		
	<u>A</u> <u>DE</u>	<u>B</u> <u>DE</u>	<u>C</u> <u>DE</u>
Nematoda			
Oligochaeta			1
Naididae		6	
Nais			
Tubificidae			
<u>Limnodrilus templetoni</u>			
<u>Limnodrilus clapparedelianus</u>			
<u>Limnodrilus hoffmeisteri</u>	1		1
<u>Tubifex tubifex</u>	15		17
Immature tubificids without capilliform chaetae	9		8
Insecta			
Collembola			
Diptera			
Ceratopogonidae			
Chironomidae			
Chironomidae pupae			
Tanytoidinae	5		3
<u>Trichoptera</u>			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 32		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Diamesinae			
<u>Diamesa</u>	1		
<u>Monodiamesa</u>	3	2	1
<u>Odontomesa</u>	1		
Orthoclaadiinae			
<u>Cricotopus</u>			
<u>Cricotopus (Cricotopus)</u>			
<u>Eukiefferiella</u>			
Chironomiinae	9	3	2
<u>Cryptochironomus</u>	2		
<u>Microtendipes</u>	9	1	2
<u>Paracladopelma</u>			
<u>Phaenopsectra</u>			
<u>Polypedilium fallax</u> gp.			
<u>Polypedilium triodura</u> gp.			
<u>Stictochironomus</u>	1		4
<u>Cladotanytarsus</u>			
<u>Rneptanytarsus</u>	7		1
Empididae			
Clinocera			
Rhagionidae			
<u>Atherix variegata</u>			
<u>Simuliidae</u>		1	
<u>Simuliidae pupae</u>	1		
Tipulidae			
<u>Linnophila</u>	1		2
Acari			
Lepidoptera			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 32 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Pyrallidae			
Ephemeroptera			
Heptageniidae			
<u>Rhithrogena</u>	1	1	
<u>Stenonema</u>			
<u>Heptagenia</u>			1
<u>Baetidae</u>			
<u>Baetis</u>			
Siphonuridae			
Tricorythidae			
Tricorythodes	1	1	5
Ephemerellidae			
<u>Ephemereila</u>	15	3	5
Odonata			
Gomphidae			
<u>Ophiodromphus</u>	1		
Plecoptera			
Perlodidae			
<u>Isogenus</u>			
<u>Isoperla</u>			
<u>Isoperla fulva</u>	1		
Perlidae			
<u>Claassenia</u>			
<u>Claassenia sabulosa</u>			
Hemiptera			
Corixidae			
Coleoptera			
Elmidae			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 32		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
<u>Duberaphia</u>			
<u>Zaitzavia</u>			
<u>Trichoptera</u>			
<u>Brachycentricidae</u>			
<u>Brachycentrus</u>			
<u>Microsema</u>			
<u>Hydropsychidae</u>		1	
<u>Hydropsyche</u>	3		
<u>Cheumatopsyche</u>			1
<u>Hydropsyche pupae</u>			
<u>Hydroptilidae</u>			
<u>Hydroptila</u>			
<u>Glossosomatidae</u>			
<u>Acapetus</u>			

APPENDIX C-13-2 (Continued)

STATION 33

REPLICATE

Sampling Method

A

DE

B

DE

C

DE

Nematoda

Oligochaeta

Nauidae

Neis

Tubificidae

Limnodrilus temoletoni

Limnodrilus claredeianus

Limnodrilus hoffmeisteri

Tubifex tubifex

Immature tubificids without capilliform chaetae

Insecta

Collembola

Diptera

Ceratopogonidae

Chironomidae

Chironomidae pupae

Tanytarsinae

Thienemannimyia

2.4.5.411

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 33		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
<u>Diamesinae</u>			
<u>Diamesa</u>			
<u>Monodiamesa</u>			
<u>Odontomesa</u>			
<u>Orthocladiinae</u>			
<u>Cricotopus</u>			
<u>Cricotopus (Cricotopus)</u>			
<u>Eukiefferiella</u>			
<u>Chironomiinae</u>			
<u>Cryptochironomus</u>			
<u>Microtendipes</u>			
<u>Paracladopelma</u>			
<u>Phaenopsectra</u>			
<u>Polypedilium fallax</u> gp.			
<u>Polypedilium tripodura</u> gp.			
<u>Stictochironomus</u>			
<u>Claodanysus</u>			
<u>Rhodanysus</u>			
<u>Empididae</u>			
<u>Clinocera</u>			
<u>Rhagionidae</u>			
<u>Atherix variegata</u>			
<u>Simuliidae</u>	1		
<u>Simuliidae pupae</u>			
<u>Tipulidae</u>	1		
<u>Limnephila</u>			
<u>Acari</u>			2
<u>Lepidoptera</u>			

2.4.5.412

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 33 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Pyralidae			
Ephemeroptera			
Heptageniidae			
<u>Rhithrogena</u>			
<u>Stenonema</u>		1	
<u>Heptagenia</u>			
<u>Baetidae</u>			
<u>Baetis</u>		1	
Siphonuridae			
Tricorythidae			
Tricorythodes	1		
Ephemerellidae			
<u>Ephemerella</u>	9	4	1
Odonata			
Gomphidae			
<u>Ophiogomphus</u>			
Plecoptera			
Perlodidae			
<u>Isonychia</u>			
<u>Isonychia</u>	1		
<u>Isonychia fulva</u>			
Perlidae			
<u>Claassenia</u>			
<u>Claassenia sabulosa</u>			
Hemiptera			
Corixidae			
Coleoptera			
Elmidae			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 33		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
<u>Duberaphia</u>			
<u>Zaitzavia</u>			
<u>Trichoptera</u>			
<u>Brachycentridae</u>			
<u>Brachycentrus</u>			
<u>Microsoma</u>			
<u>Hydropsychidae</u>			
<u>Hydropsyche</u>			
<u>Cheumatopsyche</u>		3	
<u>Hydropsyche pupae</u>			
<u>Hydroptilidae</u>			
<u>Hydroptila</u>			
<u>Glossosomatidae</u>			
<u>Aqapetus</u>			

APPENDIX C-13-2 (Continued)

STATION 34
 REPLICATE

Sampling Method	<u>A</u> <u>DE</u>	<u>B</u> <u>DE</u>	<u>C</u> <u>DE</u>
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Nematoda
 Oligochaeta
 Naididae
 Nais
 Tubificidae
Limnodrilus templetoni
Limnodrilus clapparedesianus
Limnodrilus hoffmeisteri
Tubifex tubifex
 Immature tubificids without capilliform chaetae
 Insecta
 Collembola
 Copepoda
 Ceratopogonidae
 Chironomidae
 Chironomidae pupae
 Tanytarsinae
Trichoptera

1

2

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 34		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
<u>Diamesinae</u>			
<u>Diamesa</u>			
<u>Monodiamesa</u>			
<u>Odontomesa</u>	1		
<u>Orthoclaadiinae</u>			
<u>Cricotopus</u>			
<u>Cricotopus (Cricotopus)</u>			
<u>Eukiefferiella</u>			
<u>Chironomiinae</u>			
<u>Cryptochironomus</u>			
<u>Microtendipes</u>			
<u>Paracladocelma</u>	1		
<u>Phaeropsectra</u>			
<u>Polydora fallax gp.</u>			
<u>Polydora triocura gp.</u>			
<u>Stictochironomus</u>	1		
<u>Cladotanytarsus</u>			
<u>Rhectanytarsus</u>			
<u>Empididae</u>			
<u>Climacera</u>			
<u>Rhagionidae</u>			
<u>Atherix variegata</u>			
<u>Simuliidae</u>			
<u>Simuliidae pupae</u>		1	
<u>Tipulidae</u>			
<u>Limnephila</u>			
<u>Acari</u>			2
<u>Lepidoptera</u>			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 34 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Pyrallidae			
Ephemeroptera			
Heptageniidae			
Rhithrodonta			
Stenonema			
Heptagenia			
Baetidae			
Baetis			
Siphonuridae	2	2	1
Tricorythidae			
Tricorythodes			
Ephemerellidae			
Ephemerella			
Odonata	6	3	4
Gomphidae			
Ophicromphus			
Plecoptera			
Perlodidae			
Isonychia			
Isonychia			
Isonychia fulva			
Perlidae			
Claassenia			
Claassenia sabulosa			
Hemiptera			
Corixidae			
Coleoptera			
Elmidae			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 35		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Nematoda			
Oligochaeta			
Naididae			
Neis			1
Tubificidae			
<u>Limnodrilus terrestris</u>			
<u>Limnodrilus clapparedianus</u>			
<u>Limnodrilus hoffmeisteri</u>	1		
<u>Tubifex tubifex</u>			
Immature tubificids without capilliform chaetae			
Insecta			
Collembola		1	
Diptera		1	
Ceratopogonidae			
Chironomidae			
Chironomidae pupae			
Tanypterin	1		
<u>Trichoptera</u>			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 35		
	REPLICATE		
	<u>A</u> <u>DE</u>	<u>B</u> <u>DE</u>	<u>C</u> <u>DE</u>
Nematoda			
Oligochaeta			
Naididae			1
Nais			
Tubificidae			
<u>Limnodrilus texpletoni</u>			
<u>Limnodrilus clapanedeianus</u>	1		
<u>Limnodrilus nofimeisteri</u>			
<u>Tubifex tubifex</u>			
Immature tubificids without capilliiform chaetae			
Insecta		1	
Collembola		1	
Cicadara			
Ceratolegonidae			
Chironomidae			
Chironomidae pupae	1		
Tanyptodinae			
<u>Thioberrmannia</u>			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 35		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
<u>Diamesinae</u>			
<u>Diaresia</u>			
<u>Monodiamesa</u>			
<u>Odontomesa</u>			
<u>Orthoclaadiinae</u>			
<u>Cricotopus</u>			
<u>Cricotopus (Cricotopus)</u>			
<u>Eukiefferiella</u>			
<u>Chironomiinae</u>			
<u>Cryptochironomus</u>			
<u>Microtendipes</u>		2	
<u>Paracladopelma</u>	1	1	1
<u>Phaenopsectra</u>			
<u>Polypedilum fallax</u> gp.			
<u>Polypedilum tripodura</u> gp.		1	
<u>Stictochironomus</u>		4	2
<u>Cladotanytarsus</u>			
<u>Rhytanytarsus</u>			
<u>Eriopidae</u>	3	19	7
<u>Clinocera</u>			
<u>Anagionidae</u>			
<u>Atherix variegata</u>			
<u>Simuliidae</u>			1
<u>Simuliidae pupae</u>			3
<u>Tipulidae</u>		3	
<u>Liriochila</u>			
<u>Acari</u>			1
<u>Lepidoptera</u>			1

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 35 REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
Pyralidae			
Ephemeroptera			
Heptageniidae			
<u>Rhithrogena</u>			1
<u>Stenonema</u>		1	
<u>Heptagenia</u>	7		3
<u>Baetidae</u>			
<u>Baetis</u>	1	14	11
Siphonuridae			
Tricorythidae			
Tricorythodes	15	10	54
Ephemerellidae			
<u>Ephemerella</u>	30	111	305
Odonata			
Gomphidae	1		1
<u>Ophicromphus</u>			
Plecoptera			
Perlodidae			
<u>Isogenus</u>			
<u>Isonia</u>	1	3	
<u>Isonia fulva</u>			
Perlidae			
<u>Claassenia</u>			1
<u>Claassenia sabulosa</u>			
Hemiptera			
Corixidae			1
Coleoptera			
Elmidae			

APPENDIX C-13-2 (Continued)

Sampling Method	STATION 35		
	REPLICATE		
	<u>A</u> <u>DF</u>	<u>B</u> <u>DF</u>	<u>C</u> <u>DF</u>
<u>Duberaphia</u>			
<u>Zaitzavia</u>			1
<u>Trichoptera</u>			1
<u>Brachycentridae</u>			7
<u>Brachycentrus</u>			
<u>Microsera</u>			
<u>Hydropsychidae</u>			
<u>Hydropsyche</u>			3
<u>Cheumatopsyche</u>	1		8
<u>Hydropsyche pupae</u>			1
<u>Hydroptilidae</u>			
<u>Hydroptila</u>			
<u>Glossosomatidae</u>			
<u>Aaapetus</u>			

APPENDIX C-14-1

MACROINVERTEBRATE TAXA OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

APPENDIX C-14-1

MACROINVERTEBRATE TAXA OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975

Cnidaria

Hydrozoa

Hydridae

Hydra

Nematoda

Mollusca

Gastropoda

Physidae

Physa

Lymnaeidae

Lymnaea Lamarck

Planorbidae

Annelida

Hirudinea

Rhynchobdellida

Glossiphoniidae

Helobdella stagnalis (Linnaeus)

Oligochaeta

Arthropoda

Arachnoidea

Acari

Crustacea

Amphipoda

Talitridae

Hyalella azteca (Saussure)

Insecta

Collembola

Ephemeroptera

Baetidae

Baetis Leach

Callibaetis Eaton

Heptageniidae

Rhithrogena Eaton

Ephemerellidae

Ephemerella Walsh

Tricorythidae

Tricorythodes Ulmer

Caenidae

Caenis

APPENDIX C-14-1 (Continued)

Odonata

Zygoptera

Coenagrionidae

Anisoptera

Gomphidae

Hemiptera

Gerridae

Gerris

Coleoptera

Dytiscidae

Agabus

Deronectes Sharp

Oreodytes Seidlitz

Hydrophilidae

Elmidae

Zaitzevia Champion

Trichoptera

Hydropsychidae

Cheumatopsyche

Hydropsyche Pictet

Hydroptilidae

Hydroptila Dalman

Limnephilidae

Leptoceridae

Brachycentridae

Lepidoptera

Pyralidae

Diptera

Tipulidae

Holorusia Loew

Limnophila

Ceratopogonidae

Chironomidae

Simuliidae

Simulium arcticum

S. argus Williston

S. vittatum Zetterstedt

Stratiomyidae

Euparyphus Gerstaecker

Tabanidae

Tabanus

Rhagionidae

Atherix variegata Walker

APPENDIX C-14-1 (Continued)

Empididae

Muscidae

Anthomyiidae

Limnophora aequifrons Stein

APPENDIX C-14-2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED
DURING RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

APPENDIX C-14-2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975

Sampling Method ¹	STATION REPLICATE				
	<u>1</u> ES A	<u>2</u> ES A	<u>3</u> ES A	<u>4</u> ES A	<u>5</u> ES A
Hydroza					
Hydridae					
<u>Hydra</u>					
Nematoda		18	36	109	5702
Gastropoda					
Physidae					109
<u>Physa</u>					18
Lymnaeidae					
<u>Lymnaea</u>					
Planorbidae					36
Hirundinae					
Rhynchobdellida					
Glossiphoniidae					
<u>Helobdella stagnalis</u>					145
Oligochaeta					18806
Arachnoidea					
Acari					163
Crustacea					
Amphipoda					
Talitridae					
<u>Hyallela azteca</u>					561

¹Sampling Method: ES = Elliptical Modified Surber
ED = Ekman Dredge

TS = Tall Modified Surber
DF = D Frame

APPENDIX C-14-2 (Continued)

Sampling Method	STATION ² REPLICATE				
	<u>1</u> ES A	<u>2</u> ES A	<u>3</u> ES A	<u>4</u> ES A	<u>5</u> ES A
Collembola					18
Ephemeroptera					
Heptageniidae					
Epeorus					
Rhithrogena					
Baetidae	91	434		905	181
Baetis	344	1050	18	109	217
Callibaetis					145
Ephemerellidaen					
Ephemerella					
Tricorythidae					
Tricorythodes					
Caenidae					
Caenis					36
Zygoptera					
Coenagrionidae					72
Anisoptera					
Gomphidae					
Hemiptera					
Gerridae					
Gerris					
Coleoptera	54		18	36	

²Stations 6, 10 - 12 and 16 were dry at the time of sampling.

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
	ES A	ES A	ES A	ES A	ES A
Dytiscidae	18	18		54	18
<u>Agabus</u>					
<u>Deronectes</u>					
<u>Oreodytes</u>					36
Hydrophilidae			18		18
Elmidae					
<u>Zaitzevia</u>					
Trichoptera					36
Hydropsychidae					
<u>Cheumatopsyche</u>					
<u>Hydropsyche</u>					18
Hydroptilidae					
Hydroptila					72
Limnephilidae	18				
Leptoceridae					
Brachycentridae					
Lepidoptera					
Pyrilidae					
Diptera	18				
Tipulidae				217	
Dicranota	127	18			
<u>Holorusia</u>		145		109	18
<u>Limnophila</u>					
Ceratopogonidae					3910
Chironomidae	851	1502	3674	5340	3385
Simuliidae	36	380	72	1611	9358
<u>Simulium articum</u>					
<u>S. argus</u>					

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>1</u> ES A	<u>2</u> ES A	<u>3</u> ES A	<u>4</u> ES A	<u>5</u> ES A
<u>S. vittatum</u>					54
<u>Stratiomyidae</u>	36		18		
<u>Euparyphus</u>	18				
<u>Tabanidae</u>					
<u>Tabanus</u>				18	
<u>Rhagionidae</u>					
<u>Atherix variegata</u>					
<u>Empididae</u>					
<u>Muscidae</u>					
<u>Anthomyiidae</u>					
<u>Limnophora aequifrons</u>	217			145	

APPENDIC C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>15</u> ES A	<u>17</u> ES A	<u>18</u> ES A	<u>19</u> ES A	<u>20</u> ES A
Hydroza					
Hydridae					
<u>Hydra</u>				18	
Nematoda		18			434
Gastropoda					
Physidae					
<u>Physa</u>					
Lymnaeidae					
<u>Lymnaea</u>					
Planorbidae					
Hirundinae					
Rhynchobdellida					
Glossiphoniidae					
<u>Helobdella stagnalis</u>					
Oligochaeta	109	72	18	91	2335
Arachnoidea					
Acari					
Crustacea					
Amphipoda					
Talitridae					
<u>Hyallela azteca</u>				326	18

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>15</u> ES A	<u>17</u> ES A	<u>18</u> ES A	<u>19</u> ES A	<u>20</u> ES A
Collembola					
Ephemeroptera					
Heptageniidae					
Epeorus					
Rhithrogena					
Baetidae					
Baetis					
Callibaetis					
Ephemerellidaen					
Ephemerella					
Tricorythidae					
Tricorythodes	18			54	18
Caenidae					
Caenis					
Zygoptera					
Coenagrionidae	36			109	
Anisoptera					
Gomphidae					36
Hemiptera					
Gerridae					
Gerris				18	
Coleoptera					72

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>15</u> ES <u>A</u>	<u>17</u> ES <u>A</u>	<u>18</u> ES <u>A</u>	<u>19</u> ES <u>A</u>	<u>20</u> ES <u>A</u>
Dytiscidae					18
<u>Agabus</u>					
<u>Deronectes</u>				18	36
<u>Oreodytes</u>					
Hydrophilidae					
Elmidae				36	
<u>Zaitzevia</u>					
Trichoptera					
Hydropsychidae					
<u>Cheumatopsyche</u>					
<u>Hydropsyche</u>					
Hydroptilidae					
Hydroptila	18				
Limnephilidae					
Leptoceridae					
Brachycentridae					
Lepidoptera					
Pyrallidae					
Diptera					
Tipulidae					
Dicranota					
<u>Holorusia</u>					
<u>Limnophila</u>					
Ceratopogonidae				54	1140
Chironomidae	2353	36	18	996	109
Simuliidae				833	398
<u>Simulium articum</u>				18	
<u>S. argus</u>			18		54

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>15</u> ES A	<u>17</u> ES A	<u>18</u> ES A	<u>19</u> ES A	<u>20</u> ES A
<u>S. vittatum</u>					
<u>Stratiomyidae</u>					
<u>Euparyphus</u>					
<u>Tabanidae</u>					
<u>Tabanus</u>					
<u>Rhagionidae</u>					
<u>Atherix variegata</u>					
<u>Empididae</u>					
<u>Muscidae</u>		18			
<u>Anthomyiidae</u>					
<u>Limnophora aequifrons</u>					

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>21</u> ES A	<u>22</u> ES A	<u>23</u> TS A	<u>24</u> TS A	<u>25</u> DF A
Hydroza					
Hydridae					
<u>Hydra</u>					
Nematoda	36		20		
Gastropoda					
Physidae					
<u>Physa</u>					
Lymnaeidae					
<u>Lymnaea</u>					
Planorbidae					
Hirundinae					
Rhynchobdellida					
Glossiphoniidae					
<u>Helobdella stagnalis</u>					
Oligochaeta	36	145			
Arachnoidea					
Acari	109				
Crustacea					
Amphipoda					
Talitridae					
<u>Hyallela azteca</u>					

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>21</u> ES A	<u>22</u> ES A	<u>23</u> TS A	<u>24</u> TS A	<u>25</u> DF A
Collembola					
Ephemeroptera					
Heptageniidae					
Epeorus					
Rhithrogena					8
Baetidae					
Baetis					
Callibaetis					
Ephemerellidaen					
Ephemerella				20	4
Tricorythidae					
Tricorythodes					
Caenidae					
Caenis					
Zygoptera					
Coenagrionidae		18			
Anisoptera					
Gomphidae					
Hemiptera					
Gerridae					
Gerris					
Coleoptera	18	18			

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>21</u> ES A	<u>22</u> ES A	<u>23</u> TS A	<u>24</u> TS A	<u>25</u> DF A
Dytiscidae					
<u>Aqabus</u>					
<u>Deronectes</u>					
<u>Oreodytes</u>					
Hydrophilidae					
Elmidae					1
<u>Zaitzevia</u>					
Trichoptera					
Hydropsychidae					1
<u>Cheumatopsyche</u>				78	2
<u>Hydropsyche</u>					
Hydroptilidae					
Hydroptila					
Limnephilidae					
Leptoceridae					3
Brachycentridae					
Lepidoptera					
Pyrilidae					
Diptera					
Tipulidae					
Dicranota					
<u>Holorusia</u>					1
<u>Limnophila</u>					
Ceratopogonidae	91	18			
Chironomidae	127	181	39	59	1
Simuliidae	561				
<u>Simulium articum</u>					
<u>S. argus</u>	109				

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>21</u> ES <u>A</u>	<u>22</u> ES <u>A</u>	<u>23</u> TS <u>A</u>	<u>24</u> TS <u>A</u>	<u>25</u> DF <u>A</u>
<u>S. vittatum</u>					
<u>Stratiomyidae</u>					
<u>Euparyphus</u>					
<u>Tabanidae</u>					
<u>Tabanus</u>					
<u>Rhagionidae</u>					
<u>Atherix variegata</u>					1
<u>Empididae</u>					
<u>Muscidae</u>					
<u>Anthomyiidae</u>					
<u>Limnophora aequifrons</u>					

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>26</u> TS <u>A</u>	<u>27</u> TS <u>A</u>	<u>28</u> TS <u>A</u>	<u>29</u> TS <u>A</u>	<u>30</u> TS <u>A</u>
Hydroza	39	20	39		20
Hydridae					
Hydra					
Nematoda					
Gastropoda					
Physidae					
Physa					
Lymnaeidae					
Lymnaea					
Planorbidae					
Hirundinae					
Rhynchobdellida					
Glossiphoniidae					
Helobdella stagnalis					
Oligochaeta	293	59	507	3159	78
Arachnoidea			20		20
Acari					
Crustacea					
Amphipoda					
Talitridae					
Hyalloa azteca					

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>26</u> TS A	<u>27</u> TS A	<u>28</u> TS A	<u>29</u> TS A	<u>30</u> TS A
Collembola					20
Ephemeroptera					
Heptageniidae					
Epeorus					
Rhithrogena				59	
Baetidae					
Baetis					
Callibaetis					
Ephemerellidaen					
Ephemerella	20				20
Tricorythidae					
Tricorythodes					
Caenidae					
Caenis					
Zygoptera					
Coenagrionidae					
Anisoptera					
Gomphidae					
Hemiptera					
Gerridae					
Gerris					
Coleoptera					

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>
	TS <u>A</u>	TS <u>A</u>	TS <u>A</u>	TS <u>A</u>	TS <u>A</u>
Dytiscidae					
<u>Agabus</u>					
<u>Deronectes</u>					
<u>Oreodytes</u>					
Hydrophilidae					
Elmidae					
<u>Zaitzevia</u>					
Trichoptera					
Hydropsychidae					
<u>Cheumatopsyche</u>	20				
<u>Hydropsyche</u>	39				
Hydroptilidae					
Hydroptila	20				
Limnephilidae					
Leptoceridae	20				
Brachycentridae					
Lepidoptera					
Pyrilidae				20	
Diptera	20			20	
Tipulidae					
Dicranota					
<u>Holorusia</u>					
<u>Limnophila</u>					
Ceratopogonidae				20	
Chironomidae	78	39	59	98	20
Simuliidae					
<u>Simulium articum</u>					
<u>S. argus</u>					

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>26</u> ES <u>A</u>	<u>27</u> TS <u>A</u>	<u>28</u> TS <u>A</u>	<u>29</u> TS <u>A</u>	<u>30</u> TS <u>A</u>
<u>S. vittatum</u>					
Stratiomyidae					
<u>Euparyphus</u>					
Tabanidae					
<u>Tabanus</u>					
Rhagionidae					
<u>Atherix variegata</u>					
Empididae					
Muscidae					
Anthomyiidae					
<u>Limnophora aequifrons</u>					

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	31	32	33	34	35
	DF	TS	TS	TS	TS
	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>
Hydroza					
Hydridae					
<u>Hydra</u>					
Nematoda	2				20
Gastropoda					
Physidae					
<u>Physa</u>					
Lymnaeidae					
<u>Lymnaea</u>					
Planorbidae					
Hirundinae					
Rhynchobdellida					
Glossiphoniidae					
<u>Helobdella stagnalis</u>					
Oligochaeta		78	39		78
Arachnoidea					
Acari		20			
Crustacea					
Amphipoda					
Talitridae					
<u>Hyallela azteca</u>					

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>31</u> DF <u>A</u>	<u>32</u> TS <u>A</u>	<u>33</u> TS <u>A</u>	<u>34</u> TS <u>A</u>	<u>35</u> TS <u>A</u>
Collembola				20	
Ephemeroptera					
Heptageniidae					
Epeorus					
Rhithrogena	2			20	98
Baetidae					
Baetis					
Callibaetis					
Ephemerellidaen					
Ephemerella	2				
Tricorythidae					
Tricorythodes			20		
Caenidae					
Caenis					
Zygoptera					
Coenagrionidae					
Anisoptera					
Gomphidae					
Hemiptera					
Gerridae					
Gerris					
Coleoptera					

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>31</u> DF <u>A</u>	<u>32</u> TS <u>A</u>	<u>33</u> TS <u>A</u>	<u>34</u> TS <u>A</u>	<u>35</u> TS <u>A</u>
Dytiscidae					
<u>Agabus</u>					
<u>Deronectes</u>					
<u>Oreodytes</u>					
Hydrophilidae					
Elmidae					
<u>Zaitzevia</u>					
Trichoptera					
Hydropsychidae					
<u>Cheumatopsyche</u>					
<u>Hydropsyche</u>	1				
Hydroptilidae				20	
Hydroptila					
Limnephilidae					
Leptoceridae					
Brachycentridae					
Lepidoptera					
Pyrilidae					
Diptera					
Tipulidae					
Dicranota					
<u>Holorusia</u>					
<u>Limnophila</u>	1		39		
Ceratopogonidae					
Chironomidae	2	20	20	20	20
Simuliidae					
<u>Simulium articum</u>					
<u>S. arqus</u>					

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>7</u> ES A	<u>8</u> ES A	<u>9</u> ES A	<u>13</u> ES A	<u>14</u> ED A
Hydroza					
Hydridae					
Hydra					
Nematoda	36	18	36		19
Gastropoda					
Physidae					
Physa					
Lymnaeidae					
Lymnaea					
Planorbidae					
Hirundinae					
Rhynchobdellida					
Glossiphoniidae					
Helobdella stagnalis					
Oligochaeta	109		253	18	86
Arachnoidea					
Acari					43
Crustacea					
Amphipoda					
Talitridae					
Hyalomma azteca					

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>7</u> ES A	<u>8</u> ES A	<u>9</u> ES A	<u>13</u> ES A	<u>14</u> ED A
Collembola					
Ephemeroptera					
Heptageniidae					
Epeorus					
Rhithrogena					
Baetidae	290		742	36	
Baetis	145	199	18		
Callibaetis					86
Ephemerellidae					
Ephemerella					
Tricorythidae					
Tricorythodes					
Caenidae					
Caenis					
Zygoptera					
Coenagrionidae					
Anisoptera					
Gomphidae					
Hemiptera					
Gerridae					
Gerris					
Coleoptera	72		36		

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>7</u>	<u>8</u>	<u>9</u>	<u>13</u>	<u>14</u>
	ES <u>A</u>	ES <u>A</u>	ES <u>A</u>	ES <u>A</u>	ED <u>A</u>
Dytiscidae		18	18		
<u>Aqabus</u>			18		
<u>Deronectes</u>					
<u>Oreodytes</u>					86
Hydrophilidae					
Elmidae					
<u>Zaitzevia</u>					
Trichoptera					
Hydropsychidae					
<u>Cheumatopsyche</u>					
<u>Hydropsyche</u>					
Hydroptilidae					
Hydroptila					
Limnephilidae					
Leptoceridae					
Brachycentridae					
Lepidoptera					
Pyralidae					
Diptera					
Tipulidae					
Dicranota					
<u>Holorusia</u>			18		
<u>Limnophila</u>					
Ceratopogonidae	18				129
Chironomidae	2045	344	1430	145	5383
Simuliidae	181	18	1484		43
<u>Simulium articum</u>					
<u>S. argus</u>	36				

APPENDIX C-14-2 (Continued)

Sampling Method	STATION REPLICATE				
	<u>7</u> ES A	<u>8</u> ES A	<u>9</u> ES A	<u>13</u> ES A	<u>14</u> ED A
<u>S. vittatum</u>					
<u>Stratiomyidae</u>					
<u>Euparyphus</u>					
<u>Tabanidae</u>					
<u>Tabanus</u>					
<u>Rhagionidae</u>					
<u>Atherix variegata</u>					
<u>Empididae</u>	18				
<u>Muscidae</u>	36	18	54	18	
<u>Anthomyiidae</u>					
<u>Limnophora aequifrons</u>			72		

2.4.6 Sediment Chemistry

2.4.6.1 Objectives

The objectives of the sediment chemistry studies remain unchanged from Progress Report 2. See section 2.4.6.1 of Progress Report 2 for specific objectives.

2.4.6.2 Methods

With the exception of analysis for arsenic which consists of a digestion procedure (EPA, 1973) followed by colorimetric analysis according to APHA (1971), no change in methods has occurred since Progress Report 3. See section 2.4.5.2 and 2.4.6.2 of Progress Reports 2 and 3, respectively, for specific methods used for sediment chemistry studies.

2.4.6.3 Results

Appendix C-15-1, C-16-1 and C-16-2 present the results of chemical analysis of sediment samples taken during the April and May - June 1975 sampling periods. A summary of selected parameters included in the May - June analyses for the White River and Yellow Creek are presented below. In general, concentrations of the selected parameters were similar in the two streams during the May - June sampling period.

	White River	Yellow Creek
Aluminum ($\mu\text{g/g}$)	3400 - 10,000	4700 - 10,000
Arsenic ($\mu\text{g/g}$)	4 - 6	5 - 9
Lead ($\mu\text{g/g}$)	4 - 6	6 - 9
Zinc ($\mu\text{g/g}$)	20 - 58	24 - 56

2.4.6 - Sediment Chemistry Data

2.4.6 - Sediment Chemistry

APPENDIX C-15-1

RESULTS OF SEDIMENT CHEMISTRY ANALYSIS
DURING RBOSP AQUATIC BASELINE STUDIES
APRIL 1975

APPENDIX C-15-1

RESULTS OF SEDIMENT CHEMISTRY ANALYSIS DURING RBOSP
AQUATIC BASELINE STUDIES, APRIL 1975 (Results are expressed in $\mu\text{g/g}$)¹

<u>Station Replicate</u>	<u>Parameter As</u>
1-A	39
1-B	35
2-A	17
2-B	17
3-A	11
3-B	10
4-A	15
4-B	16
5-A	4
5-B	4
7-A	10
7-B	11
8-A	11
8-B	10
9-A	13
9-B	9
13-A	7
13-B	7
14-A	5
14-B	6
19-A	5
19-B	4
20-A	7
20-B	7
21-A	6
21-B	5
22-A	5
22-B	5
23-A	3
23-B	3
24-A	5
24-B	5
25-A	11
25-B	9

¹Stations 6, 10-12, and 15-18 were dry at the time of sampling.

APPENDIX C-15-1 (Continued)

<u>Station Replicate</u>	<u>Parameter As</u>
26-A	7
26-B	6
27-A	3
27-B	3
28-A	6
28-B	6
29-A	5
29-B	5
30-A	7
30-B	3
31-A	7
31-B	3
32-A	5
32-B	6
33-A	8
33-B	7
34-A	6
34-B	6
35-A	5
35-B	5

APPENDIX C-16-1

RESULTS OF SEDIMENT CHEMISTRY ANALYSIS DURING
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX C-16-1

RESULTS OF SEDIMENT CHEMISTRY ANALYSIS DURING RBOSP AQUATIC BASELINE STUDIES MAY - JUNE 1975 (Results are expressed in $\mu\text{g/g}$ unless otherwise noted)

STATION ¹ REPLICATE	PARAMETER						
	Al	As	Pb	Hg ($\mu\text{g/g}$)	KJELDAHL N	TOTAL P	VOLATILE SOLIDS
1-A	15,700	25	23	<50	1,822	957	76,900
1-B	15,200	24	20	<50	1,862	938	73,900
2-A	12,900	18	16	<50	956	919	50,400
2-B	12,600	18	15	<50	939	948	46,700
3-A	11,900	8	10	<50	1,478	876	57,500
3-B	10,700	8	10	<50	1,404	841	58,000
4-A	13,800	17	15	<50	610	844	40,400
4-B	12,700	19	16	<50	735	804	44,200
5-A	13,800	5	10	<47	768	646	31,800
5-B	17,700	6	10	<49	778	666	32,600
6-A	13,800	15	15	<50	614	714	41,000
6-B	14,400	17	17	<50	566	696	37,500
7-A	12,300	9	10	<50	1,184	787	43,200
7-B	13,200	8	10	<50	1,216	798	41,700
8-A	10,200	11	12	<50	259	653	26,800
8-B	10,200	12	11	<50	261	676	24,000
9-A	15,500	13	29	49	1,110	798	50,300
9-B	13,000	11	29	<50	1,134	860	48,400
13-A	12,000	9	11	<50	255	727	26,100
13-B	12,500	9	11	<50	266	668	28,500

¹ Stations 10-12 and 15-18 were dry at the time of sampling.

APPENDIX C-16-1 (Continued)

STATION ¹ REPLICATE	PARAMETER						
	Al	As	Pb	Hg (µg/g)	KJELDAHL N	TOTAL P	VOLATILE SOLIDS
14-A	15,700	5	8	<50	506	572	32,900
14-B	14,900	5	8	<50	521	565	33,000
19-A	17,700	5	9	<50	1,995	773	52,600
19-B	14,400	5	9	<50	1,089	725	48,300
20-A	4,800	7	7	99	181	530	21,000
20-B	5,700	7	6	<50	190	527	18,900
21-A	4,900	8	7	<172	184	599	17,100
21-B	4,700	9	7	<99	166	506	16,800
22-A	9,500	6	7	<50	320	555	22,700
22-B	11,100	5	6	<49	319	585	24,000
23-A	4,100	5	5	<50	170	392	10,300
23-B	4,200	5	5	<50	182	385	10,300
24-A	10,000	5	5	<49	513	661	26,100
24-B	27,500	6	5	<49	497	612	21,700
25-A	6,700	5	6	<49	305	536	17,000
25-B	7,100	4	6	<49	302	550	17,700
26-A	3,400	6	4	<50	127	423	9,640
26-B	3,700	5	4	<50	146	441	10,500
27-A	7,300	5	4	<50	235	497	15,000
27-B	7,700	5	4	<49	251	513	14,900
28-A	6,000	5	4	<49	223	425	11,300
28-B	5,400	5	4	<50	221	399	13,000
29-A	6,000	6	5	<49	237	442	14,800
29-B	5,900	5	5	<49	232	442	16,700

2.4.6.23

APPENDIX C-16-1 (Continued)

STATION ¹ REPLICATE	PARAMETER						
	Al	As	Pb	Hg (µg/g)	KJELDAHL N	TOTAL P	VOLATILE SOLIDS Zn
30-A	4,300	6	5	<50	175	415	13,000 27
30-B	4,900	6	6	<49	199	433	12,800 30
31-A	4,800	6	5	<50	169	412	11,100 22
31-B	4,600	6	5	<50	148	399	10,600 22
32-A	4,200	6	5	<50	203	478	14,600 22
32-B	5,000	6	6	<50	192	433	13,000 22
33-A	6,200	6	4	<49	495	559	23,800 27
33-B	7,300	5	6	<50	510	538	23,000 33
34-A	5,100	4	4	<49	200	468	13,600 21
34-B	5,200	5	3	<50	174	438	12,600 22
35-A	5,600	6	4	<49	270	455	15,400 25
35-B	6,900	5	4	<50	270	462	16,000 26

APPENDIX C-16-2

RESULTS OF SEDIMENT HERBICIDE ANALYSIS
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX C-16-2

RESULTS OF SEDIMENT HERBICIDE ANALYSIS, RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975. (Data are expressed in mg/l.)¹

<u>Station</u>	<u>Parameter</u>	
	<u>Tordon 22k</u>	<u>Silvex</u>
1-A	<0.02	<0.02
1-B	<0.02	<0.02
2-A	<0.02	<0.02
2-B	<0.02	<0.02
3-A	<0.02	<0.02
3-B	<0.02	<0.02
4-A	<0.02	<0.02
4-B	<0.02	<0.02
5-A	<0.02	<0.02
5-B	<0.02	<0.02
6-A	<0.02	<0.02
6-B	<0.02	<0.02
7-A	<0.02	<0.02
7-B	<0.02	<0.02
8-A	<0.02	<0.02
8-B	<0.02	<0.02
9-A	<0.02	<0.02
9-B	<0.02	<0.02
13-A	<0.02	<0.02
13-B	<0.02	<0.02
14-A	<0.02	<0.02
14-B	<0.02	<0.02
19-A	<0.02	<0.02
19-B	<0.02	<0.02
20-A	<0.02	<0.02
20-B	<0.02	<0.02
21-A	<0.02	<0.02
21-B	<0.02	<0.02
22-A	<0.02	<0.02
22-B	<0.02	<0.02
23-A	<0.02	<0.02
23-B	<0.02	<0.02
24-A	<0.02	<0.02
24-B	<0.02	<0.02
25-A	<0.02	<0.02
25-B	<0.02	<0.02

¹ Stations 10-12 and 15-18 were dry at the time of sampling.

APPENDIX C-16-2 (Continued)

<u>Station</u>	<u>Parameter</u>	
	<u>Tordon 22k</u>	<u>Silvex</u>
26-A	<0.02	<0.02
26-B	<0.02	<0.02
27-A	<0.02	<0.02
27-B	<0.02	<0.02
28-A	<0.02	<0.02
28-B	<0.02	<0.02
29-A	<0.02	<0.02
29-B	<0.02	<0.02
30-A	<0.02	<0.02
30-B	<0.02	<0.02
31-A	<0.02	<0.02
31-B	<0.02	<0.02
32-A	<0.02	<0.02
32-B	<0.02	<0.02
33-A	<0.02	<0.02
33-B	<0.02	<0.02
34-A	<0.02	<0.02
34-B	<0.02	<0.02
35-A	<0.02	<0.02
35-B	<0.02	<0.02

2.4.7 Macrophytes

2.4.7.1 Objectives

No change in objectives has occurred since Progress Report 3. See section 2.4.7.1 of Progress Report 3 for specific objectives.

2.4.7.2 Methods

No change in methods has occurred since Progress Report 2. See section 2.4.7.2 of Progress Report 2 for specific methods.

2.4.7.3 Results

Aquatic macrophytes were observed at Stations 1, 5, 8, 14, 19, and 20 during May - June. Evaluation of the relative abundance of aquatic macrophytes followed the system of Jessen and Lound (1962). At Station 1, the density of water cress (Rorippa nasturtium - aquaticum) was sparse. At Stations 5, the density of water cress was sparse, whereas the densities of Ranunculus cymbalaria were moderate. At Station 8, the density of water cress was scattered (it occurred along a strip 12 - 18 inches wide extending approximately 19 feet along the west bank of the stream). At Station 14, Zannichelia vulgaris was present in moderate abundance. At Station 19 (a pond), Chara kieneri was dense. At Station 20, Zannichelia palustris L. was present in scattered abundance.

2.4.8 Fish

2.4.8.1 Objectives

The objectives of fish studies remain unchanged from Progress Report 2.

2.4.8.2 Methods

The high flow and swift current encountered in the White River during May - June 1975 sampling necessitated some modification in fish sampling procedures. Fishing methods used during May - June sampling are outlined below.

Station 23

Electroshocking runs were made downstream through a 100 foot (30.5m) section which was not blocked off. Fish were collected with three dip nets. This procedure was then repeated for the second replicate.

Station 25 and 31

Electroshocking from a boat was attempted at these mid-stream stations. These efforts proved unsuccessful as no fish were captured with this method.

Station 27 and 28

Electroshocking runs were made upstream through a 100 foot (30.5m) using three dip nets to collect fish. (The section could not be blocked off prior to shocking.) The procedure was repeated for the second replicate.

Station 29

Electroshocking runs were made downstream through a 100 foot (30.5m) section using three dip nets to collect fish; also electroshocked upstream along a 40 foot channel adjacent to the stream (neither of these sections could be blocked off). The procedure was then repeated for the second replicate.

Stations 30 and 32

Electroshocking runs were made downstream through a 100 foot (30.5m) section using four dip nets to collect fish. The procedure was then repeated for the second replicate.

Stations 33 and 34

Electroshocking runs were made downstream through a 100 foot (30.5m) section using three dip nets to collect fish. The procedure was then repeated for the second replicate.

Station 35

Electroshocking runs were made downstream through a 100 (30.5m) section from a boat using the probes and two dip nets for the boat. This procedure was then repeated for the second replicate.

2.4.8.3 Results

Fish data from the May - June sampling period are presented in Appendices C-17-1 through C-17-7. During the May - June sampling, approximately 463 fish representing eight species were captured in the White River and lower Yellow Creek. The catch was dominated by rough and forage fishes, with only a single game fish (cutthroat trout) observed. The most abundant fish were dace, flannelmouth sucker, fathead minnow, and bluehead sucker. The high volume and velocity of flow of the White River hampered fishing efforts during this sampling period.

2.4.8 Fish Data

APPENDIX C-17-1

FISH DATA, WHITE RIVER AND YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX C-17-1

FISH DATA, WHITE RIVER AND YELLOW CREEK RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975

<u>Date</u>	<u>Station Replicate</u>	<u>Species</u>	<u>Length (mm)</u>	<u>Weight (gm)</u>	<u>K_T_L</u>
6-27-75	22-1	Carp	445	1,311	1.48
		Roundtail chub	273	169	0.83
		"	194	68.8	0.94
		"	178	50.6	0.89
		"	197	68.3	0.89
		"	199	71.8	0.91
		"	191	66.7	0.95
		"	203	65.6	0.78
		Flannelmouth sucker	170	43.9	0.89
		"	126	17	0.84
		"	120	16	0.92
		"	74	4	0.98
		"	71	4	1.11
		"	75	5	1.18
		"	72	4	1.07
		"	81	5	0.94
		"	73	4	1.02
		"	80	5	0.97
		"	71	4	1.11
		"	68	3	0.95
		"	76	4	0.91
		"	69	3	0.91
		"	63	2	0.79
		"	69	3	0.91
		"	69	3	0.91
		"	68	3	0.95
		"	66	3	1.04
		"	59	2	0.97
		"	64	2	0.76
		"	63	2	0.79
		"	52	1	0.71
		"	69	3	0.91
		"	55	1	0.60
		"	49	1	0.84
		"	56	2	1.13
		"	64	3	1.14
		"	67	3	0.99
		"	58	2	1.02
		"	56	2	1.13

APPENDIX C-17-1 (Continued)

<u>Date</u>	<u>Station Replicate</u>	<u>Species</u>	<u>Length (mm)</u>	<u>Weight (gm)</u>	<u>K_{TL}</u>
6-27-75	22-1	Flannelmouth sucker	46	1	1.02
		"	49	1	0.84
		"	64	3	1.14
		"	54	1	0.63
		"	68	3	0.95
		"	55	2	1.20
		"	66	3	1.04
		"	58	2	1.02
		"	64	2	0.76
		"	63	2	0.79
		"	60	2	0.92
		"	62	2	0.83
		"	60	2	0.92
		"	59	2	0.97
		"	65	3	1.19
		"	55	2	1.20
		"	55	2	1.20
		"	54	1	0.63
		"	59	2	0.97
		"	57	2	1.07
		"	59	2	0.97
		"	56	2	1.13
		"	55	2	1.20
		"	46	1	1.02
		"	55	1	0.60
		"	49	1	0.84
		"	56	2	1.13
		"	52	1	0.71
		"	51	1	0.75
		"	63	2	0.79
		"	47	1	0.96
		"	57	2	1.07
		"	55	2	1.20
		"	54	1	0.63
		"	49	1	0.84
		Bluehead sucker	100	11	1.1
		"	53		
		"	54		
		"	52		
		"	48		
		"	60		
		"	52		

CHAPTER I

No.	Name	Age	Sex	Religion	Profession	Marital Status	Education	Remarks
1	John Doe	25	M	Christian	Teacher	Married	High School	
2	Jane Smith	30	F	Protestant	Nurse	Single	College	
3	Robert Brown	45	M	Catholic	Engineer	Married	University	
4	Mary White	20	F	Jewish	Student	Single	High School	
5	David Green	35	M	Muslim	Doctor	Married	Medical School	
6	Elizabeth Black	55	F	Buddhist	Retired	Widowed	College	
7	William Grey	18	M	Hindu	Student	Single	High School	
8	Anna Gold	60	F	Sikh	Homemaker	Married	Elementary	
9	Thomas Silver	22	M	Orthodox	Student	Single	University	
10	Sarah Copper	40	F	Anglican	Teacher	Married	College	

APPENDIX C-17-1 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)	K _{TL}
6-27-75	22-1	Bluehead sucker	59		
		"	49		
		"	63		
		"	49		
		"	44		
		"	47		
		"	48		
		"	55		
		"	53		
		"	50		
		"	39		
		"	55		
				27.0 = Total for	
		Fathead minnow	55	18 Bluehead	
		"	55	suckers	
		"	46		
		"	47		
		"	59		
		"	47		
		"	38		
		"	37		
		"	39		
		"	58		
		"	42		
		"	39		
		"	42		
		"	49		
		"	34		
		"	40		
		"	40		
		"	42		
		"	42		
		"	54		
		"	36		
		"	52		
		"	53		
		"	39		
		"	42		
		"	50		
		"	39		
		"	56		

APPENDIX C-17-1 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)	K _{TL}
6-27-75	22-1	Fathead minnow	55		
		"	42		
		"	44		
		"	50		
		"	56		
		"	55		
		"	49		
				50.6 = Total for 35	
				Fathead minnows	
6-27-75	22-1	Rhinichthys spp.	44		
		"	49		
		"	56		
		"	49		
		"	44		
		"	47		
		"	43		
		"	42		
		"	45		
		"	49		
		"	54		
		"	58		
		"	54		
		"	48		
		"	46		
		"	46		
		"	56		
		"	53		
		"	49		
		"	56		
		"	45		
		"	44		
		"	35		
		"	55		
		"	43		
		"	45		
		"	43		
		"	50		
		"	45		
		"	55		
		"	46		
		"	56		

TABLE 1

Year	No. of cases	Percentage of cases	
		Male	Female
1950	1	100	0
1951	1	100	0
1952	1	100	0
1953	1	100	0
1954	1	100	0
1955	1	100	0
1956	1	100	0
1957	1	100	0
1958	1	100	0
1959	1	100	0
1960	1	100	0
1961	1	100	0
1962	1	100	0
1963	1	100	0
1964	1	100	0
1965	1	100	0
1966	1	100	0
1967	1	100	0
1968	1	100	0
1969	1	100	0
1970	1	100	0
1971	1	100	0
1972	1	100	0
1973	1	100	0
1974	1	100	0
1975	1	100	0
1976	1	100	0
1977	1	100	0
1978	1	100	0
1979	1	100	0
1980	1	100	0
1981	1	100	0
1982	1	100	0
1983	1	100	0
1984	1	100	0
1985	1	100	0
1986	1	100	0
1987	1	100	0
1988	1	100	0
1989	1	100	0
1990	1	100	0
1991	1	100	0
1992	1	100	0
1993	1	100	0
1994	1	100	0
1995	1	100	0
1996	1	100	0
1997	1	100	0
1998	1	100	0
1999	1	100	0
2000	1	100	0
2001	1	100	0
2002	1	100	0
2003	1	100	0
2004	1	100	0
2005	1	100	0
2006	1	100	0
2007	1	100	0
2008	1	100	0
2009	1	100	0
2010	1	100	0
2011	1	100	0
2012	1	100	0
2013	1	100	0
2014	1	100	0
2015	1	100	0
2016	1	100	0
2017	1	100	0
2018	1	100	0
2019	1	100	0
2020	1	100	0
2021	1	100	0
2022	1	100	0
2023	1	100	0
2024	1	100	0
2025	1	100	0
2026	1	100	0
2027	1	100	0
2028	1	100	0
2029	1	100	0
2030	1	100	0
2031	1	100	0
2032	1	100	0
2033	1	100	0
2034	1	100	0
2035	1	100	0
2036	1	100	0
2037	1	100	0
2038	1	100	0
2039	1	100	0
2040	1	100	0
2041	1	100	0
2042	1	100	0
2043	1	100	0
2044	1	100	0
2045	1	100	0
2046	1	100	0
2047	1	100	0
2048	1	100	0
2049	1	100	0
2050	1	100	0
2051	1	100	0
2052	1	100	0
2053	1	100	0
2054	1	100	0
2055	1	100	0
2056	1	100	0
2057	1	100	0
2058	1	100	0
2059	1	100	0
2060	1	100	0
2061	1	100	0
2062	1	100	0
2063	1	100	0
2064	1	100	0
2065	1	100	0
2066	1	100	0
2067	1	100	0
2068	1	100	0
2069	1	100	0
2070	1	100	0
2071	1	100	0
2072	1	100	0
2073	1	100	0
2074	1	100	0
2075	1	100	0
2076	1	100	0
2077	1	100	0
2078	1	100	0
2079	1	100	0
2080	1	100	0
2081	1	100	0
2082	1	100	0
2083	1	100	0
2084	1	100	0
2085	1	100	0
2086	1	100	0
2087	1	100	0
2088	1	100	0
2089	1	100	0
2090	1	100	0
2091	1	100	0
2092	1	100	0
2093	1	100	0
2094	1	100	0
2095	1	100	0
2096	1	100	0
2097	1	100	0
2098	1	100	0
2099	1	100	0
2100	1	100	0

APPENDIX C-17-1 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)	K _{TL}
6-27-75	22-1	Rhinichthys spp.	50		
		"	49		
		"	45		
		"	52		
		"	44		
		"	46		
		"	52		
		"	45		
		"	60		
		"	43		
		"	40		
		"	47		
		"	52		
		"	35		
		"	50		
		"	44		
		"	44		
		"	43		
		"	38		
		"	50		
		"	53		
		"	50		
		"	44		
		"	49		
		"	54		
		"	47		
		"	51		
		"	48		
		"	45		
		"	47		
		"	52		
		"	33		
		"	40		
		"	50		
		"	53		
		"	44		
		"	57		
		"	47		
		"	53		
		"	47		
		"	48		

APPENDIX C-17-1 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)	K _{TL}
6-27-75	22-1	Rhinichthys spp.	53		
		"	37		
		"	48		
		"	47		
		"	46		
		"	47		
		"	49		
		"	32		
		"	48		
		"	50		
		"	45		
		"	46		
		"	42		
		"	50		
		"	47		
		"	56		
		"	45		
		"	49		
		"	46		
		"	48		
		"	39		
		"	51		
		"	40		
		"	44		
		"	47		
		"	39		
		"	42		
		"	33		
		"	45		
		"	46		
		"	54		
		"	45		
		"	51		
		"	49		
		"	42		
		"	42		
		"	53		
		"	37		

APPENDIX C-17-1 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)	K _{TL}
6-27-75	22-1	Rhinichthys spp.	47		
		"	50		
		"	46		
		"	42		
				118.5 = Total for 118 Rhinichthys spp.	
6-27-75	22-2	Rhinichthys sp.	72	3.9	
		Fathead minnow	65	4.0	1.45
		Rhinichthys spp.	58	1.9	
		"	54	1.3	
		"	48	1.0	
		"	45	0.8	
		"	46	0.9	
6-27-75	22-Qua1	Flannelmouth sucker	71	3	0.83
		"	63	2	0.79
		"	47		
		"	52		
		"	46		
				3 = Total for 3 Flannelmouth sucker suckers	
		Bluehead sucker	52	2	1.42
		Fathead minnow	47		
		"	35		
		"	40		
		"	45		
		"	47		
		"	49		
		"	34		
				7 = Total for 7 Fathead minnows	
		Rhinichthys spp.	50		
		"	44		
		"	47		
		"	49		
		"	48		

UNITED STATES DEPARTMENT OF AGRICULTURE

No.	Date	Description	Amount	Total
1	1911	...	...	...
2	1912	...	...	...
3	1913	...	...	...
4	1914	...	...	...
5	1915	...	...	...
6	1916	...	...	...
7	1917	...	...	...
8	1918	...	...	...
9	1919	...	...	...
10	1920	...	...	...
11	1921	...	...	...
12	1922	...	...	...

APPENDIX C-17-1 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)	K _T _L
6-27-75	22-Qua1	Rhinichthys spp.	44		
		"	44		
		"	48		
		"	51		
		"	56		
		"	50		
		"	54		
		"	52		
		"	53		
		"	44		
		"	49		
		"	44		
		"	45		
		"	43		
		"	52		
		"	53		
		"	48		
		"	51		
		"	50		
		"	56		
		"	46		
		"	51		
		"	51		
		"	40		
		"	40		
		"	43		
		"	50		
		"	51		
		"	42		
		"	46		
		"	44		
		"	39		
		"	42		
		"	35		
		"	44		
		"	39		
		"	46		
		"	45		
		"	59		
		"	48		

APPENDIX C-17-1 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)	K _{TL}
6-27-75	22-Quad	Rhinichthys spp.	42		
		"	46		
		"	44		
		"	39		
		"	42		
		"	35		
		"	44		
		"	39		
		"	46		
		"	45		
		"	59		
		"	48		
		"	47		
		"	40		
		"	47		
				45.2 = Total for 49 Rhinichthys spp.	
6-27-75	23-1	Flannelmouth sucker	264	140	0.76
		"	213	78	0.80
		"	170	42	0.85
		Bluehead sucker	184	47	0.75
		Mottled sculpin	90	10	1.37
		"	92	11	1.41
		"	83	8	1.39
		Rhinichthys spp.	52	2	
6-27-75	23-2	Mottled sculpin	66	4.2	1.46
6-24-75	24-1	Flannelmouth sucker	425	605	0.78
		"	227	100	0.85
		"	171	43	0.85
		"	154	35	0.95
		"	135	22	0.89
		Bluehead sucker	218	80	0.77
		Rhinichthys spp.	49	1.2	
		"	46	0.9	
6-24-75	24-2	Flannelmouth sucker	457	725	0.75
		"	226	100	0.86
		Bluehead sucker	162	35	0.82

THE HISTORY OF THE

REIGN OF

CHARLES THE FIRST

BY

JOHN BURNET

OF THE

UNIVERSITY OF OXFORD

IN TWO VOLUMES

LONDON

APPENDIX C-17-1 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)	K _{TL}
6-27-75	24-2	Bluehead sucker	192	55	0.77
		"	163	38	0.87
6-24-75	25-1	No Fish			
6-24-75	25-2	No Fish			
6-24-75	26-1	Flannelmouth sucker	184	65	1.04
6-24-75	26-2	Flannelmouth sucker	170	36	0.73
		Rhinichthys spp.	65	3.5	
		"	54	1.4	
		"	48	1.1	
6-26-75	27-1	Rhinichthys spp.			
6-26-75	27-2	Flannelmouth sucker			
		Roundtail chub			
		Rhinichthys spp.			
6-26-75	28-1	Flannelmouth sucker	472	831	0.79
		"	422	611	0.81
		"	370	458	0.90
		"	385	481	0.84
		"	434	703	0.85
		"	388	485	0.83
		"	354	360	0.81
		"	395	586	0.95
		"	116	14.1	0.90
		Cutthroat trout	337	452	1.18
6-26-75	28-1	Roundtail chub	152	31.5	0.89
		Rhinichthys spp.	72	3.8	
		"	51	1.2	
		"	55	1.4	
6-26-75	28-2	Flannelmouth sucker	411	770	1.1
		"	267	154	0.80
6-26-75	29-1	Flannelmouth sucker	224	85	0.75
		"	162	32	0.75
		"	176	42	0.77
		"	217	83	0.81
		"	239	110	0.80

THE JOURNAL OF THE

No.	Date	Place	Description		Amount
			By	To	
1	1890	London	Jan 1	Balance	100.00
2	1890	London	Jan 15	Interest	5.00
3	1890	London	Jan 30	Interest	5.00
4	1890	London	Feb 15	Interest	5.00
5	1890	London	Feb 28	Interest	5.00
6	1890	London	Mar 15	Interest	5.00
7	1890	London	Mar 30	Interest	5.00
8	1890	London	Apr 15	Interest	5.00
9	1890	London	Apr 30	Interest	5.00
10	1890	London	May 15	Interest	5.00
11	1890	London	May 30	Interest	5.00
12	1890	London	Jun 15	Interest	5.00
13	1890	London	Jun 30	Interest	5.00
14	1890	London	Jul 15	Interest	5.00
15	1890	London	Jul 30	Interest	5.00
16	1890	London	Aug 15	Interest	5.00
17	1890	London	Aug 30	Interest	5.00
18	1890	London	Sep 15	Interest	5.00
19	1890	London	Sep 30	Interest	5.00
20	1890	London	Oct 15	Interest	5.00
21	1890	London	Oct 30	Interest	5.00
22	1890	London	Nov 15	Interest	5.00
23	1890	London	Nov 30	Interest	5.00
24	1890	London	Dec 15	Interest	5.00
25	1890	London	Dec 30	Interest	5.00
26	1890	London	Jan 1	Balance	100.00
27	1890	London	Jan 15	Interest	5.00
28	1890	London	Jan 30	Interest	5.00
29	1890	London	Feb 15	Interest	5.00
30	1890	London	Feb 28	Interest	5.00
31	1890	London	Mar 15	Interest	5.00
32	1890	London	Mar 30	Interest	5.00
33	1890	London	Apr 15	Interest	5.00
34	1890	London	Apr 30	Interest	5.00
35	1890	London	May 15	Interest	5.00
36	1890	London	May 30	Interest	5.00
37	1890	London	Jun 15	Interest	5.00
38	1890	London	Jun 30	Interest	5.00
39	1890	London	Jul 15	Interest	5.00
40	1890	London	Jul 30	Interest	5.00
41	1890	London	Aug 15	Interest	5.00
42	1890	London	Aug 30	Interest	5.00
43	1890	London	Sep 15	Interest	5.00
44	1890	London	Sep 30	Interest	5.00
45	1890	London	Oct 15	Interest	5.00
46	1890	London	Oct 30	Interest	5.00
47	1890	London	Nov 15	Interest	5.00
48	1890	London	Nov 30	Interest	5.00
49	1890	London	Dec 15	Interest	5.00
50	1890	London	Dec 30	Interest	5.00

APPENDIX C-17-1 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)	K _T _L
6-26-75	29-1	Flannelmouth sucker	214	73	0.74
		"	156	28	0.73
		"	393	601	0.99
		"	364	407	0.84
		"	169	48.1	0.99
		"	148	32.1	0.99
		"	124	17.1	0.89
		Bluehead sucker	226	140	1.21
		"	409	628	0.91
		"	145	26.7	0.87
		"	146	28.0	0.89
		"	141	25.6	0.91
		"	111	11.7	0.85
		"	94	8.4	1.01
		Mottled sculpin	101	14	1.35
		"	86	9	1.41
		"	77	7	1.53
		"	70	5	1.45
		"	60	3	1.38
		Rhinichthys spp.	69	3	
		"	50		
		"	50		
		"	47		
		"	46		
		"	46		
		"	44		
		"	46		
		"	54		
		"	43		
		"	47		
		"	49		
			12 = Total for 11 11 Rhinichthys spp.		
6-26-75	29-2	Flannelmouth sucker	169	41	
		Bluehead sucker	104	10.9	
		Mottled sculpin	78	6.3	
		Rhinichthys spp.	95	11.2	
		"	81	5.4	
		"	63	3.4	
"		54	1.6		

Inventory of the Collection

Category	Date	Description	Quantity	Value
Books	1890-1895	The History of the United States	10	\$10.00
		The Constitution of the United States	5	\$5.00
		The Declaration of Independence	3	\$3.00
		The Bill of Rights	2	\$2.00
		The Federalist Papers	4	\$4.00
		The Anti-Federalist Papers	3	\$3.00
		The Writings of Thomas Jefferson	6	\$6.00
		The Writings of James Madison	4	\$4.00
		The Writings of Alexander Hamilton	3	\$3.00
		The Writings of John Jay	2	\$2.00
Manuscripts	1890-1895	The Papers of George Washington	10	\$10.00
		The Papers of Benjamin Franklin	5	\$5.00
		The Papers of John Adams	3	\$3.00
		The Papers of Thomas Paine	2	\$2.00
		The Papers of James Oglethorpe	4	\$4.00
		The Papers of George Oglethorpe	3	\$3.00
		The Papers of James Oglethorpe	2	\$2.00
		The Papers of George Oglethorpe	3	\$3.00
		The Papers of James Oglethorpe	2	\$2.00
		The Papers of George Oglethorpe	3	\$3.00
Prints	1890-1895	The Great Seal of the United States	10	\$10.00
		The Declaration of Independence	5	\$5.00
		The Bill of Rights	3	\$3.00
		The Federalist Papers	4	\$4.00
		The Anti-Federalist Papers	3	\$3.00
		The Writings of Thomas Jefferson	6	\$6.00
		The Writings of James Madison	4	\$4.00
		The Writings of Alexander Hamilton	3	\$3.00
		The Writings of John Jay	2	\$2.00
		The Writings of George Washington	3	\$3.00

APPENDIX C-17-1 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)	K _T
6-26-75	29-2	Rhinichthys spp.	51		
		"	52		
		"	49		
				3.6 = Total for 3 Rhinichthys spp.	
6-23-75	30-1	Flannelmouth sucker	429	669	
		"	423	769	
		"	390	510	
		"	82	6	
		"	74	4	
		"	67		
		"	61		
		"	59		
		"	50		
		"	52		
		"	51		
		"	46		
		"	51		
		"	50		
		"	54		
		"	45		
		"	44		
		"	48		
				18.2 = Total for last 13 Flannelmouth suckers	
6-23-75	30-2	Rhinichthys spp.	98	11.2	
6-23-75	31-1	No Fish Captured			
6-23-75	31-2	No Fish Captured			
6-23-75	32-1	Flannelmouth sucker	324	304	0.89
		"	229	97	0.80
		"	198	60	0.77

(continued) - 1994-1995

1994-1995		1995-1996		1996-1997	
Year	Month	Year	Month	Year	Month
1994	Jan	1995	Jan	1996	Jan
1994	Feb	1995	Feb	1996	Feb
1994	Mar	1995	Mar	1996	Mar
1994	Apr	1995	Apr	1996	Apr
1994	May	1995	May	1996	May
1994	Jun	1995	Jun	1996	Jun
1994	Jul	1995	Jul	1996	Jul
1994	Aug	1995	Aug	1996	Aug
1994	Sep	1995	Sep	1996	Sep
1994	Oct	1995	Oct	1996	Oct
1994	Nov	1995	Nov	1996	Nov
1994	Dec	1995	Dec	1996	Dec
1995	Jan	1996	Jan	1997	Jan
1995	Feb	1996	Feb	1997	Feb
1995	Mar	1996	Mar	1997	Mar
1995	Apr	1996	Apr	1997	Apr
1995	May	1996	May	1997	May
1995	Jun	1996	Jun	1997	Jun
1995	Jul	1996	Jul	1997	Jul
1995	Aug	1996	Aug	1997	Aug
1995	Sep	1996	Sep	1997	Sep
1995	Oct	1996	Oct	1997	Oct
1995	Nov	1996	Nov	1997	Nov
1995	Dec	1996	Dec	1997	Dec

APPENDIX C-17-1 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)	K_{TL}
6-23-75	32-1	Flannelmouth sucker	169	29	0.60
		Bluehead sucker	160	20	0.48
		Roundtail chub	231	86	0.68
6-23-75	32-2	Flannelmouth sucker	203	62	0.74
		"	210	63	0.68
6-25-75	33-1	Flannelmouth sucker	383	497	0.88
		"	133	21	0.89
6-25-75	33-2	Rhinichthys spp.	62	2.3	
		"	54	1.6	
		"	49	1.3	
6-25-75	34-1	Flannelmouth sucker	220	88	0.82
		"	242	121	0.85
		"	216	86	0.85
		"	175	50	0.93
		Mottled sculpin	88	11	1.61
6-25-75	34-1	Rhinichthys spp.	86	8	
		"	71	4	
		"	42	1	
		"	50		
		"	57		
		"	48		
					4.4 = Total for last 3 Rhinichthys spp.

Date		Description		Amount	
1900	Jan	1	Balance forward	100.00	
1900	Jan	2	Received from A. B.	50.00	
1900	Jan	3	Received from C. D.	25.00	
1900	Jan	4	Received from E. F.	75.00	
1900	Jan	5	Received from G. H.	100.00	
1900	Jan	6	Received from I. J.	150.00	
1900	Jan	7	Received from K. L.	200.00	
1900	Jan	8	Received from M. N.	250.00	
1900	Jan	9	Received from O. P.	300.00	
1900	Jan	10	Received from Q. R.	350.00	
1900	Jan	11	Received from S. T.	400.00	
1900	Jan	12	Received from U. V.	450.00	
1900	Jan	13	Received from W. X.	500.00	
1900	Jan	14	Received from Y. Z.	550.00	
1900	Jan	15	Received from A. B.	600.00	
1900	Jan	16	Received from C. D.	650.00	
1900	Jan	17	Received from E. F.	700.00	
1900	Jan	18	Received from G. H.	750.00	
1900	Jan	19	Received from I. J.	800.00	
1900	Jan	20	Received from K. L.	850.00	
1900	Jan	21	Received from M. N.	900.00	
1900	Jan	22	Received from O. P.	950.00	
1900	Jan	23	Received from Q. R.	1000.00	
1900	Jan	24	Received from S. T.	1050.00	
1900	Jan	25	Received from U. V.	1100.00	
1900	Jan	26	Received from W. X.	1150.00	
1900	Jan	27	Received from Y. Z.	1200.00	
1900	Jan	28	Received from A. B.	1250.00	
1900	Jan	29	Received from C. D.	1300.00	
1900	Jan	30	Received from E. F.	1350.00	
1900	Jan	31	Received from G. H.	1400.00	
1900	Jan	32	Received from I. J.	1450.00	
1900	Jan	33	Received from K. L.	1500.00	
1900	Jan	34	Received from M. N.	1550.00	
1900	Jan	35	Received from O. P.	1600.00	
1900	Jan	36	Received from Q. R.	1650.00	
1900	Jan	37	Received from S. T.	1700.00	
1900	Jan	38	Received from U. V.	1750.00	
1900	Jan	39	Received from W. X.	1800.00	
1900	Jan	40	Received from Y. Z.	1850.00	
1900	Jan	41	Received from A. B.	1900.00	
1900	Jan	42	Received from C. D.	1950.00	
1900	Jan	43	Received from E. F.	2000.00	
1900	Jan	44	Received from G. H.	2050.00	
1900	Jan	45	Received from I. J.	2100.00	
1900	Jan	46	Received from K. L.	2150.00	
1900	Jan	47	Received from M. N.	2200.00	
1900	Jan	48	Received from O. P.	2250.00	
1900	Jan	49	Received from Q. R.	2300.00	
1900	Jan	50	Received from S. T.	2350.00	
1900	Jan	51	Received from U. V.	2400.00	
1900	Jan	52	Received from W. X.	2450.00	
1900	Jan	53	Received from Y. Z.	2500.00	
1900	Jan	54	Received from A. B.	2550.00	
1900	Jan	55	Received from C. D.	2600.00	
1900	Jan	56	Received from E. F.	2650.00	
1900	Jan	57	Received from G. H.	2700.00	
1900	Jan	58	Received from I. J.	2750.00	
1900	Jan	59	Received from K. L.	2800.00	
1900	Jan	60	Received from M. N.	2850.00	
1900	Jan	61	Received from O. P.	2900.00	
1900	Jan	62	Received from Q. R.	2950.00	
1900	Jan	63	Received from S. T.	3000.00	
1900	Jan	64	Received from U. V.	3050.00	
1900	Jan	65	Received from W. X.	3100.00	
1900	Jan	66	Received from Y. Z.	3150.00	
1900	Jan	67	Received from A. B.	3200.00	
1900	Jan	68	Received from C. D.	3250.00	
1900	Jan	69	Received from E. F.	3300.00	
1900	Jan	70	Received from G. H.	3350.00	
1900	Jan	71	Received from I. J.	3400.00	
1900	Jan	72	Received from K. L.	3450.00	
1900	Jan	73	Received from M. N.	3500.00	
1900	Jan	74	Received from O. P.	3550.00	
1900	Jan	75	Received from Q. R.	3600.00	
1900	Jan	76	Received from S. T.	3650.00	
1900	Jan	77	Received from U. V.	3700.00	
1900	Jan	78	Received from W. X.	3750.00	
1900	Jan	79	Received from Y. Z.	3800.00	
1900	Jan	80	Received from A. B.	3850.00	
1900	Jan	81	Received from C. D.	3900.00	
1900	Jan	82	Received from E. F.	3950.00	
1900	Jan	83	Received from G. H.	4000.00	
1900	Jan	84	Received from I. J.	4050.00	
1900	Jan	85	Received from K. L.	4100.00	
1900	Jan	86	Received from M. N.	4150.00	
1900	Jan	87	Received from O. P.	4200.00	
1900	Jan	88	Received from Q. R.	4250.00	
1900	Jan	89	Received from S. T.	4300.00	
1900	Jan	90	Received from U. V.	4350.00	
1900	Jan	91	Received from W. X.	4400.00	
1900	Jan	92	Received from Y. Z.	4450.00	
1900	Jan	93	Received from A. B.	4500.00	
1900	Jan	94	Received from C. D.	4550.00	
1900	Jan	95	Received from E. F.	4600.00	
1900	Jan	96	Received from G. H.	4650.00	
1900	Jan	97	Received from I. J.	4700.00	
1900	Jan	98	Received from K. L.	4750.00	
1900	Jan	99	Received from M. N.	4800.00	
1900	Jan	100	Received from O. P.	4850.00	
1900	Jan	101	Received from Q. R.	4900.00	
1900	Jan	102	Received from S. T.	4950.00	
1900	Jan	103	Received from U. V.	5000.00	
1900	Jan	104	Received from W. X.	5050.00	
1900	Jan	105	Received from Y. Z.	5100.00	
1900	Jan	106	Received from A. B.	5150.00	
1900	Jan	107	Received from C. D.	5200.00	
1900	Jan	108	Received from E. F.	5250.00	
1900	Jan	109	Received from G. H.	5300.00	
1900	Jan	110	Received from I. J.	5350.00	
1900	Jan	111	Received from K. L.	5400.00	
1900	Jan	112	Received from M. N.	5450.00	
1900	Jan	113	Received from O. P.	5500.00	
1900	Jan	114	Received from Q. R.	5550.00	
1900	Jan	115	Received from S. T.	5600.00	
1900	Jan	116	Received from U. V.	5650.00	
1900	Jan	117	Received from W. X.	5700.00	
1900	Jan	118	Received from Y. Z.	5750.00	
1900	Jan	119	Received from A. B.	5800.00	
1900	Jan	120	Received from C. D.	5850.00	
1900	Jan	121	Received from E. F.	5900.00	
1900	Jan	122	Received from G. H.	5950.00	
1900	Jan	123	Received from I. J.	6000.00	
1900	Jan	124	Received from K. L.	6050.00	
1900	Jan	125	Received from M. N.	6100.00	
1900	Jan	126	Received from O. P.	6150.00	
1900	Jan	127	Received from Q. R.	6200.00	
1900	Jan	128	Received from S. T.	6250.00	
1900	Jan	129	Received from U. V.	6300.00	
1900	Jan	130	Received from W. X.	6350.00	
1900	Jan	131	Received from Y. Z.	6400.00	
1900	Jan	132	Received from A. B.	6450.00	
1900	Jan	133	Received from C. D.	6500.00	
1900	Jan	134	Received from E. F.	6550.00	
1900	Jan	135	Received from G. H.	6600.00	
1900	Jan	136	Received from I. J.	6650.00	
1900	Jan	137	Received from K. L.	6700.00	
1900	Jan	138	Received from M. N.	6750.00	
1900	Jan	139	Received from O. P.	6800.00	
1900	Jan	140	Received from Q. R.	6850.00	
1900	Jan	141	Received from S. T.	6900.00	
1900	Jan	142	Received from U. V.	6950.00	
1900	Jan	143	Received from W. X.	7000.00	
1900	Jan	144	Received from Y. Z.	7050.00	
1900	Jan	145	Received from A. B.	7100.00	
1900	Jan	146	Received from C. D.	7150.00	
1900	Jan	147	Received from E. F.	7200.00	
1900	Jan	148	Received from G. H.	7250.00	
1900	Jan	149	Received from I. J.	7300.00	
1900	Jan	150	Received from K. L.	7350.00	
1900	Jan	151	Received from M. N.	7400.00	
1900	Jan	152	Received from O. P.	7450.00	
1900	Jan	153	Received from Q. R.	7500.00	
1900	Jan	154	Received from S. T.	7550.00	
1900	Jan	155	Received from U. V.	7600.00	
1900	Jan	156	Received from W. X.	7650.00	
1900	Jan	157	Received from Y. Z.	7700.00	
1900	Jan	158	Received from A. B.	7750.00	
1900	Jan	159	Received from C. D.	7800.00	
1900	Jan	160	Received from E. F.	7850.00	
1900	Jan	161	Received from G. H.	7900.00	
1900	Jan	162	Received from I. J.	7950.00	
1900	Jan	163	Received from K. L.	8000.00	
1900	Jan	164	Received from M. N.	8050.00	
1900	Jan	165	Received from O. P.	8100.00	
1900	Jan	166	Received from Q. R.	8150.00	
1900	Jan	167	Received from S. T.	8200.00	
1900	Jan	168	Received from U. V.	8250.00	
1900	Jan	169	Received from W. X.	8300.00	
1900	Jan	170	Received from Y. Z.	8350.00	
1900	Jan	171	Received from A. B.	8400.00	
1900	Jan	172	Received from C. D.	8450.00	
1900	Jan	173	Received from E. F.	8500.00	
1900	Jan	174	Received from G. H.	8550.00	
1900	Jan	175	Received from I. J.	8600.00	
1900	Jan	176	Received from K. L.	8650.00	
1900	Jan	177	Received from M. N.	8700.00	
1900	Jan	178	Received from O. P.	8750.00	
1900	Jan	179	Received from Q. R.	8800.00	
1900	Jan	180	Received from S. T.	8850.00	
1900	Jan	181	Received from U. V.	8900.00	
1900	Jan	182	Received from W. X.	8950.00	
1900	Jan	183	Received from Y. Z.	9000.00	
1900	Jan	184	Received from A. B.	9050.00	
1900	Jan	185	Received from C. D.	9100.00	
1900	Jan	186	Received from E. F.	9150.00	
1900	Jan	187	Received from G. H.	9200.00	
1900	Jan	188	Received from I. J.	9250.00	
1900	Jan	189	Received from K. L.	9300.00	
1900	Jan	190	Received from M. N.	9350.00	
1900	Jan	191	Received from O. P.	9400.00	
1900	Jan	192	Received from Q. R.	9450.00	
1900	Jan	193	Received from S. T.	9500.00	
1900	Jan	194	Received from U. V.	9550.00	
1900	Jan	195	Received from W. X.	9600.00	
1900	Jan	196	Received from Y. Z.	9650.00	
1900	Jan	197	Received from A. B.	9700.00	
1900	Jan	198	Received from C. D.	9750.00	
1900	Jan	199	Received from E. F.	9800.00	
1900	Jan	200	Received from G. H.	9850.00	
1900	Jan	201	Received from I. J.	9900.00	
1900	Jan	202	Received from K. L.	9950.00	
1900	Jan	203	Received from M. N.	10000.00	
1900	Jan	204	Received from O. P.	10050.00	
1900	Jan	205	Received from Q. R.	10100.00	
1900	Jan	206	Received from S. T.	10150.00	
1900	Jan	207	Received from U. V.	10200.00	
1900	Jan	208	Received from W. X.	10250.00	
1900	Jan	209	Received from Y. Z.	10300.00	
1900	Jan	210	Received from A. B.	10350.00	
1900	Jan	211	Received from C. D.	10400.00	
1900	Jan	212	Received from E. F.	10450.00	
1900	Jan	213	Received from G. H.	10500.00	
1900	Jan	214	Received from I. J.	10550.00	
1900	Jan	215	Received from K. L.	10600.00	
1900	Jan	216	Received from M. N.	10650.00	
1900	Jan	217	Received from O. P.	10700.00	
1900	Jan	218	Received from Q. R.	10750.00	
1900	Jan	219	Received from S. T.	10800.00	
1900	Jan	220	Received from U. V.	10850.00	
1900	Jan	221	Received from W. X.	10900.00	
1900	Jan	222	Received from Y. Z.	10950.00	
1900	Jan	223	Received from A. B.	11000.00	
1900	Jan	224	Received from C. D.	11050.00	
1900	Jan	225	Received from E. F.	11100.00	
1900					

APPENDIX C-17-1 (Continued)

Date	Station Replicate	Species	Length (mm)	Weight (gm)	K_{TL}
6-25-75	34-1	Rhinichthys spp.	47 42 44 41 47	4.5 = Total for 5 Rhinichthys spp.	
6-25-75	34-2	Rhinichthys spp.	75	5.3	
6-25-75	35-1	Flannelmouth sucker	206	65	0.74
		"	200	58	0.72
		"	183	50	0.81
		"	109	11	0.84
		Bluehead sucker	308	236	0.80
6-25-75	35-2	Flannelmouth sucker	175	49	0.91

Table 1. Summary of data for the first 1000 cases.

Age group		Sex		Ethnicity	
Male	Female	Male	Female	White	Black
10-14	15	10	5	10	5
15-19	20	15	5	15	5
20-24	25	20	5	20	5
25-29	30	25	5	25	5
30-34	35	30	5	30	5
35-39	40	35	5	35	5
40-44	45	40	5	40	5
45-49	50	45	5	45	5
50-54	55	50	5	50	5
55-59	60	55	5	55	5
60-64	65	60	5	60	5
65-69	70	65	5	65	5
70-74	75	70	5	70	5
75-79	80	75	5	75	5
80-84	85	80	5	80	5
85-89	90	85	5	85	5
90-94	95	90	5	90	5
95-99	100	95	5	95	5

APPENDIX C-17 - 2

LIST OF FISH SPECIES AND NUMBERS CAPTURED
WHITE RIVER AND LOWER YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975

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APPENDIX C-17-2

LIST OF FISH SPECIES AND NUMBERS CAPTURED WHITE RIVER AND LOWER YELLOW CREEK RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975

<u>Common Name</u>	<u>Scientific Name</u>	<u>Number Captured</u>
Cutthroat trout	<u>Salmo clarki</u>	1
Fathead minnow	<u>Pimephales promelas</u>	43
Dace	<u>Rhinichthys</u> spp.	234
Bluehead sucker	<u>Catostomus discobolus</u>	36
Flannelmouth sucker	<u>Catostomus latipinnis</u>	127
Mottled sculpin	<u>Cottus bairdi</u>	11
Roundtail chub	<u>Gila robusta</u>	10
Carp	<u>Cyprinus carpio</u>	1

Table 2. Continued

Source: Author's calculations on data from the 1990 Census of the United States, 1990. The sample is restricted to the non-Hispanic white population aged 18 and over. The sample size is 10,000.

Variable	Mean	Standard Deviation
Age	34.5	10.2
Female	0.45	0.50
Married	0.65	0.48
High School Graduate	0.85	0.35
College Graduate	0.25	0.43
Unemployed	0.05	0.22
Wage	12.5	4.5
Log Wage	2.45	0.15
Constant	-1.5	0.5

APPENDIX C-17-3

SUMMARY OF STOMACH CONTENT ANALYSIS FOR NINE MOTTLED SCUPIN
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX C-17-3

SUMMARY OF STOMACH CONTENT ANALYSIS FOR NINE MOTTLED SCUPIN RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975

<u>Food Item</u>	<u>% Frequency of Occurrence¹</u>	<u>& of Total Food Item²</u>
Baetidae	56	24
Ephemerella	73	65
Hydropsyche	33	10
Tricorythodes	11	2

THE
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THE
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VOLUME 10
PART 1
1880

APPENDIX C-17-4

SUMMARY OF STOMACH CONTENT ANALYSES FOR 64 FLANNELMOUTH
SUCKERS RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX C-17-4

SUMMARY OF STOMACH CONTENT ANALYSES FOR 64 FLANNELMOUTH SUCKERS RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975

<u>Food Item</u>	<u>% Frequency of Occurrence¹</u>	<u>% of Total Food Item²</u>
Baetidae	8	2
Baetis	16	9
Ceratopogonidae	6	1
Chironomidae	53	52
Diptera adult	3	1
Diptera pupa	2	1
Ephemerella	23	14
Ephemeroptera adult	2	1
Hydropsyche	16	8
Hydropsychidae	2	<1
Hydroptila	3	<1
Isoperla	6	1
Nematoda	2	<1
Pyralidae	2	<1
Simuliidae	16	10
Terrestrial ant	3	<1
Terrestrial insect	2	<1
Terrestrial seed	14	2
Internal Parasites	42	--
Sand	9	--

APPENDIX C-17-5

SUMMARY OF STOMACH CONTENT ANALYSIS FOR 11 BLUEHEAD
SUCKERS RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX C-17-5

SUMMARY OF STOMACH CONTENT ANALYSIS FOR 11 BLUEHEAD SUCKERS RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975

<u>Food Item</u>	<u>% Frequency of Occurrence¹</u>	<u>% of Total Food Item²</u>
Baetidae	27	8
Chironomidae	27	3
Ephemerella	9	2
Hydroptila	9	2
Pyralidae	9	2
Simuliidae	9	2
Terrestrial seed	9	2
Internal Parasites	55	--
Sand	36	--

¹% Frequency of Occurrence = $\frac{\# \text{ stomach containing food items}}{\text{total \# stomachs examined}}$

²% of Total Food Items = $\frac{\text{total \# of a food taxa in all stomachs}}{\text{total \# of all food items}}$

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APPENDIX C-17-6

SUMMARY OF STOMACH CONTENT ANALYSIS FOR EIGHT ROUNDTAIL CHUBS
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX C-17-6

SUMMARY OF STOMACH CONTENT ANALYSIS FOR EIGHT ROUNDTAIL CHUBS RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975

<u>Food Item</u>	<u>% Frequency of Occurrence¹</u>	<u>% of Total Food Items²</u>
Acari	13	7
Chironomidae	38	21
Ephemerella	13	29
Fish (Minnow)	13	7
Hydroptilidae case	13	7
Spirogyra	38	--
Internal parasites	25	--

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is crucial for ensuring the integrity of the financial system and for providing a clear audit trail.

2. The second part of the document outlines the specific procedures for recording transactions. It details the steps involved in entering data into the system, from initial entry to final verification.

3. The third part of the document discusses the role of the accounting department in ensuring that all transactions are properly recorded and that the system remains up-to-date.

4. The fourth part of the document provides a summary of the key points discussed and offers recommendations for improving the recording process.

APPENDIX C-17-7

RESULTS OF FOOD HABIT ANALYSES FOR INDIVIDUAL FISH
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX C-17-7

RESULTS OF FOOD HABIT ANALYSES FOR INDIVIDUAL FISH RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975¹

Species	Station 22		Date 6-26-75	
	Length (mm)	Weight (gm)	Food Items	
			#	
Flannelmouth sucker	74.0	4.0	19	Chironomidae Insect parts
Flannelmouth sucker	71.0	4.0	20	Chironomidae
			10	Simulidae larva
Flannelmouth sucker	75.0	5.0	2	Chironomidae
Flannelmouth sucker	72.0	4.0	20	Chironomidae
			10	Simulidae larva
Flannelmouth sucker	81.0	5.0	8	Chironomidae
			2	Simulidae larva
Flannelmouth sucker	73.0	4.0	14	Chironomidae
			1	Simulidae larva
Flannelmouth sucker	71.0	4.0	18	Chironomidae
			11	Simulidae larva
Flannelmouth sucker	76.0	4.0	20	Chironomidae
Flannelmouth sucker	68.0	3.0	10	Chironomidae
			8	Simulidae larva
Flannelmouth sucker	69.0	3.0	30	Chironomidae
Flannelmouth sucker	120.0	16.0	1	Diptera pupa
Flannelmouth sucker	170.0	43.9	2	<u>Baetis</u>
			15	Chironomidae
Roundtail chub	178.0	50.6	1	Chironomidae Insect parts Spirogyra

¹ No fish were taken at Stations 25 and 31, no stomachs were taken at Stations 33 and 35; and the five specimens taken at Station 27 were accidentally destroyed.

U = Unidentifiable

APPENDIX C-17-7 (Continued)

Station 22 (Continued) Date 6-26-75

<u>Species</u>	<u>Length (mm)</u>	<u>Weight (gm)</u>	<u>Food Items</u>	
			<u>#</u>	
Roundtail chub	191.0	66.7	1	Chironomidae
			4	Ephemerella
			1	Fish (minnow)
Roundtail chub	199.0	71.8	3	Insect parts
Roundtail chub	203.0	65.6	1	Acari Spirogyra
Roundtail chub	197.0	68.3	1	Chironomidae
			1	Hydroptilidae case Spirogyra
Roundtail chub	273.0	169.9	U	
Bluehead sucker	100.0	11.0	U	
Flannelmouth sucker	126.0	17.0	U	
Flannelmouth sucker	80.0	5.0	None	

Station 23

Date 6-27-75

Flannelmouth sucker	213.0	78.0	1	<u>Ephemerella</u>
Flannelmouth sucker	170.0	42.0	U	
Flannelmouth sucker	264.0	140.0	U	
Bluehead sucker	184.0	47.0	U Sand	

Station 24

Date 6-24-75

Flannelmouth sucker	227.0	100.0	10	<u>Baetis</u>
Flannelmouth sucker	425.0	605.0	16	<u>Baetis</u>
			4	Chironomidae
			20	<u>Ephemerella</u>
			5	Hydropsychidae
			2	<u>Hydroptila</u>
			1	<u>Isoperla</u>

APPENDIX C-17-7 (Continued)

Station 24 (Continued) Date 6-24-75

<u>Species</u>	<u>Length (mm)</u>	<u>Weight (gm)</u>	<u>Food Items</u>	
			<u>#</u>	<u>if</u>
Flannelmouth sucker	457.0	725.0	9	<u>Ephemerella</u>
			1	<u>Hydropsyche</u>
			1	<u>Simulidae</u>
Flannelmouth sucker	135.0	22.0	1	<u>Hydropsyche</u>
			1	<u>Isoperla</u>
Flannelmouth sucker	226.0	100.0	1	<u>Ephemerella</u>
Flannelmouth sucker	154.0	35.0	1	Seed (Terrestrial origin)
Flannelmouth sucker	171.0	43.0	1	<u>Baetis</u>
			1	<u>Ephemerella</u>
Bluehead sucker	192.0	55.0	16	<u>Chironomidae</u>
			1	<u>Pyralidae</u>
			5	<u>Simulidae</u>
Bluehead sucker	163.0	38.0	2	<u>Baetis</u>
			10	<u>Ephemerella</u>
			1	<u>Hydroptila</u>
Bluehead sucker	162.0	35.0	2	Seeds (Terrestrial origin)
Bluehead sucker	218.0	80.0	1	U

Station 26

Date 6-26-75

Flannelmouth sucker	224.0	85.0	1	<u>Baetidae</u>
			3	<u>Ephemerella</u>
			1	Seed (Terrestrial origin)
Flannelmouth sucker	170.0	36.0	1	<u>Hydropsyche</u>
Flannelmouth sucker	184.0	65.0	1	Seed (Terrestrial origin)

TABLE 1. SUMMARY OF DATA FOR THE FIRST 100 OBSERVATIONS			
Observation Number	Time (hr:min)	Latitude (N)	Longitude (W)
1	01:15	34° 15' N	118° 15' W
2	01:30	34° 15' N	118° 15' W
3	01:45	34° 15' N	118° 15' W
4	02:00	34° 15' N	118° 15' W
5	02:15	34° 15' N	118° 15' W
6	02:30	34° 15' N	118° 15' W
7	02:45	34° 15' N	118° 15' W
8	03:00	34° 15' N	118° 15' W
9	03:15	34° 15' N	118° 15' W
10	03:30	34° 15' N	118° 15' W
11	03:45	34° 15' N	118° 15' W
12	04:00	34° 15' N	118° 15' W
13	04:15	34° 15' N	118° 15' W
14	04:30	34° 15' N	118° 15' W
15	04:45	34° 15' N	118° 15' W
16	05:00	34° 15' N	118° 15' W
17	05:15	34° 15' N	118° 15' W
18	05:30	34° 15' N	118° 15' W
19	05:45	34° 15' N	118° 15' W
20	06:00	34° 15' N	118° 15' W
21	06:15	34° 15' N	118° 15' W
22	06:30	34° 15' N	118° 15' W
23	06:45	34° 15' N	118° 15' W
24	07:00	34° 15' N	118° 15' W
25	07:15	34° 15' N	118° 15' W
26	07:30	34° 15' N	118° 15' W
27	07:45	34° 15' N	118° 15' W
28	08:00	34° 15' N	118° 15' W
29	08:15	34° 15' N	118° 15' W
30	08:30	34° 15' N	118° 15' W
31	08:45	34° 15' N	118° 15' W
32	09:00	34° 15' N	118° 15' W
33	09:15	34° 15' N	118° 15' W
34	09:30	34° 15' N	118° 15' W
35	09:45	34° 15' N	118° 15' W
36	10:00	34° 15' N	118° 15' W
37	10:15	34° 15' N	118° 15' W
38	10:30	34° 15' N	118° 15' W
39	10:45	34° 15' N	118° 15' W
40	11:00	34° 15' N	118° 15' W
41	11:15	34° 15' N	118° 15' W
42	11:30	34° 15' N	118° 15' W
43	11:45	34° 15' N	118° 15' W
44	12:00	34° 15' N	118° 15' W
45	12:15	34° 15' N	118° 15' W
46	12:30	34° 15' N	118° 15' W
47	12:45	34° 15' N	118° 15' W
48	13:00	34° 15' N	118° 15' W
49	13:15	34° 15' N	118° 15' W
50	13:30	34° 15' N	118° 15' W
51	13:45	34° 15' N	118° 15' W
52	14:00	34° 15' N	118° 15' W
53	14:15	34° 15' N	118° 15' W
54	14:30	34° 15' N	118° 15' W
55	14:45	34° 15' N	118° 15' W
56	15:00	34° 15' N	118° 15' W
57	15:15	34° 15' N	118° 15' W
58	15:30	34° 15' N	118° 15' W
59	15:45	34° 15' N	118° 15' W
60	16:00	34° 15' N	118° 15' W
61	16:15	34° 15' N	118° 15' W
62	16:30	34° 15' N	118° 15' W
63	16:45	34° 15' N	118° 15' W
64	17:00	34° 15' N	118° 15' W
65	17:15	34° 15' N	118° 15' W
66	17:30	34° 15' N	118° 15' W
67	17:45	34° 15' N	118° 15' W
68	18:00	34° 15' N	118° 15' W
69	18:15	34° 15' N	118° 15' W
70	18:30	34° 15' N	118° 15' W
71	18:45	34° 15' N	118° 15' W
72	19:00	34° 15' N	118° 15' W
73	19:15	34° 15' N	118° 15' W
74	19:30	34° 15' N	118° 15' W
75	19:45	34° 15' N	118° 15' W
76	20:00	34° 15' N	118° 15' W
77	20:15	34° 15' N	118° 15' W
78	20:30	34° 15' N	118° 15' W
79	20:45	34° 15' N	118° 15' W
80	21:00	34° 15' N	118° 15' W
81	21:15	34° 15' N	118° 15' W
82	21:30	34° 15' N	118° 15' W
83	21:45	34° 15' N	118° 15' W
84	22:00	34° 15' N	118° 15' W
85	22:15	34° 15' N	118° 15' W
86	22:30	34° 15' N	118° 15' W
87	22:45	34° 15' N	118° 15' W
88	23:00	34° 15' N	118° 15' W
89	23:15	34° 15' N	118° 15' W
90	23:30	34° 15' N	118° 15' W
91	23:45	34° 15' N	118° 15' W
92	00:00	34° 15' N	118° 15' W
93	00:15	34° 15' N	118° 15' W
94	00:30	34° 15' N	118° 15' W
95	00:45	34° 15' N	118° 15' W
96	01:00	34° 15' N	118° 15' W
97	01:15	34° 15' N	118° 15' W
98	01:30	34° 15' N	118° 15' W
99	01:45	34° 15' N	118° 15' W
100	02:00	34° 15' N	118° 15' W

APPENDIX C-17-7 (Continued)

Station 28		Date 6-26-75	
Species	Length (mm)	Weight (gm)	Food Items
Flannelmouth sucker	422.0	611.0	1 Hydropsychidae
Flannelmouth sucker	385.0	481.0	2 Baetidae Vegetation (Terrestrial origin)
Flannelmouth sucker	395.0	586.0	3 Baetidae 1 Chironomidae 1 Ephemera Seed (Terrestrial origin)
Flannelmouth sucker	472.0	831.0	2 Baetis 1 Ceratopogonidae 2 Chironomidae 2 Ephemera 3 Hydropsyche
Flannelmouth sucker	267.0	154.0	12 Baetis 1 Chironomidae 4 Ephemera 2 Hydropsyche 1 Isoperla 1 Terrestrial insect 2 Seed (Terrestrial origin)
Flannelmouth sucker	116.0	14.1	1 Chironomidae
Flannelmouth sucker	388.0	485.0	1 Baetis 1 Chironomidae
Flannelmouth sucker	434.0	703.0	U
Flannelmouth sucker	411.0	770.0	U Sand
Flannelmouth sucker	370.0	458.0	U Sand
Flannelmouth sucker	354.0	360.0	U Sand
Roundtail chub	152.0	31.5	U

Date	Description	Amount
1900	Jan 1	100.00
1900	Feb 1	200.00
1900	Mar 1	300.00
1900	Apr 1	400.00
1900	May 1	500.00
1900	Jun 1	600.00
1900	Jul 1	700.00
1900	Aug 1	800.00
1900	Sep 1	900.00
1900	Oct 1	1000.00
1900	Nov 1	1100.00
1900	Dec 1	1200.00
1901	Jan 1	1300.00
1901	Feb 1	1400.00
1901	Mar 1	1500.00
1901	Apr 1	1600.00
1901	May 1	1700.00
1901	Jun 1	1800.00
1901	Jul 1	1900.00
1901	Aug 1	2000.00
1901	Sep 1	2100.00
1901	Oct 1	2200.00
1901	Nov 1	2300.00
1901	Dec 1	2400.00
1902	Jan 1	2500.00
1902	Feb 1	2600.00
1902	Mar 1	2700.00
1902	Apr 1	2800.00
1902	May 1	2900.00
1902	Jun 1	3000.00
1902	Jul 1	3100.00
1902	Aug 1	3200.00
1902	Sep 1	3300.00
1902	Oct 1	3400.00
1902	Nov 1	3500.00
1902	Dec 1	3600.00
1903	Jan 1	3700.00

APPENDIX C-17-7 (Continued)

Station 29		Date 2-26-75	
<u>Species</u>	<u>Length (mm)</u>	<u>Weight (gm)</u>	<u>#</u> <u>Food Items</u>
Flannelmouth sucker	156.0	28.0	1 Ceratopogonidae 1 Chironomidae 1 Ephemerella 1 Hydropsyche 1 Ant 1 Seed (Terrestrial origin)
Flannelmouth sucker	169.0	41.0	1 Ephemerella 1 Seed (Terrestrial origin)
Flannelmouth sucker	63.0	2.0	15 Chironomidae
Flannelmouth sucker	69.0	3.0	14 Chironomidae
Flannelmouth sucker	69.0	3.0	15 Chironomidae 1 Nematoda
Flannelmouth sucker	68.0	3.0	3 Chironomidae
Flannelmouth sucker	66.0	3.0	3 Chironomidae 4 Simuliidae
Flannelmouth sucker	148.0	32.1	1 Baetidae
Flannelmouth sucker	124.0	17.1	1 Chironomidae 1 Ant
Flannelmouth sucker	162.0	32.0	3 Ceratopogonidae 1 Chironomidae 1 Seed & grass
Flannelmouth sucker	214.0	73.0	2 Baetidae 1 Chironomidae 1 Hydropsyche
Flannelmouth sucker	217.0	83.0	2 Baetis 1 Chironomidae 2 Ephemerella
Flannelmouth sucker	239.0	110.0	1 Chironomidae Insect parts

Date		Description	
1900	Jan 1	Balance	100.00
1900	Jan 15	Received from A. B.	50.00
1900	Feb 1	Received from C. D.	25.00
1900	Mar 1	Received from E. F.	75.00
1900	Apr 1	Received from G. H.	100.00
1900	May 1	Received from I. J.	150.00
1900	Jun 1	Received from K. L.	200.00
1900	Jul 1	Received from M. N.	250.00
1900	Aug 1	Received from O. P.	300.00
1900	Sep 1	Received from Q. R.	350.00
1900	Oct 1	Received from S. T.	400.00
1900	Nov 1	Received from U. V.	450.00
1900	Dec 1	Received from W. X.	500.00
1900	Dec 31	Total	2000.00

APPENDIX C-17-7 (Continued)

Station 29		Date 2-26-75		
Species	Length (mm)	Weight (gm)	Food Items	
			#	
Flannelmouth sucker	156.0	28.0	1	Ceratopogonidae
			1	Chironomidae
			1	<u>Ephemerella</u>
			1	<u>Hydropsyche</u>
			1	Ant
			1	Seed (Terrestrial origin)
Flannelmouth sucker	169.0	41.0	1	<u>Ephemerella</u>
			1	Seed (Terrestrial origin)
Flannelmouth sucker	63.0	2.0	15	Chironomidae
Flannelmouth sucker	69.0	3.0	14	Chironomidae
Flannelmouth sucker	69.0	3.0	15	Chironomidae
			1	Nematoda
Flannelmouth sucker	68.0	3.0	3	Chironomidae
Flannelmouth sucker	66.0	3.0	3	Chironomidae
			4	Simulidae
Flannelmouth sucker	148.0	32.1	1	Baetidae
Flannelmouth sucker	124.0	17.1	1	Chironomidae
			1	Ant
Flannelmouth sucker	162.0	32.0	3	Ceratopogonidae
			1	Chironomidae
			1	Seed & grass
Flannelmouth sucker	214.0	73.0	2	Baetidae
			1	Chironomidae
			1	<u>Hydropsyche</u>
Flannelmouth sucker	217.0	83.0	2	<u>Baetis</u>
			1	Chironomidae
			2	<u>Ephemerella</u>
Flannelmouth sucker	239.0	110.0	1	Chironomidae Insect parts

TABLE 1. - SUMMARY OF DATA

STATION	DATE	TEMPERATURE		WIND	WAVE
		AIR	WATER		
1	1/1/50	50	45	10	2
2	1/1/50	50	45	10	2
3	1/1/50	50	45	10	2
4	1/1/50	50	45	10	2
5	1/1/50	50	45	10	2
6	1/1/50	50	45	10	2
7	1/1/50	50	45	10	2
8	1/1/50	50	45	10	2
9	1/1/50	50	45	10	2
10	1/1/50	50	45	10	2
11	1/1/50	50	45	10	2
12	1/1/50	50	45	10	2
13	1/1/50	50	45	10	2
14	1/1/50	50	45	10	2
15	1/1/50	50	45	10	2
16	1/1/50	50	45	10	2
17	1/1/50	50	45	10	2
18	1/1/50	50	45	10	2
19	1/1/50	50	45	10	2
20	1/1/50	50	45	10	2
21	1/1/50	50	45	10	2
22	1/1/50	50	45	10	2
23	1/1/50	50	45	10	2
24	1/1/50	50	45	10	2
25	1/1/50	50	45	10	2
26	1/1/50	50	45	10	2
27	1/1/50	50	45	10	2
28	1/1/50	50	45	10	2
29	1/1/50	50	45	10	2
30	1/1/50	50	45	10	2
31	1/1/50	50	45	10	2
32	1/1/50	50	45	10	2
33	1/1/50	50	45	10	2
34	1/1/50	50	45	10	2
35	1/1/50	50	45	10	2
36	1/1/50	50	45	10	2
37	1/1/50	50	45	10	2
38	1/1/50	50	45	10	2
39	1/1/50	50	45	10	2
40	1/1/50	50	45	10	2
41	1/1/50	50	45	10	2
42	1/1/50	50	45	10	2
43	1/1/50	50	45	10	2
44	1/1/50	50	45	10	2
45	1/1/50	50	45	10	2
46	1/1/50	50	45	10	2
47	1/1/50	50	45	10	2
48	1/1/50	50	45	10	2
49	1/1/50	50	45	10	2
50	1/1/50	50	45	10	2
51	1/1/50	50	45	10	2
52	1/1/50	50	45	10	2
53	1/1/50	50	45	10	2
54	1/1/50	50	45	10	2
55	1/1/50	50	45	10	2
56	1/1/50	50	45	10	2
57	1/1/50	50	45	10	2
58	1/1/50	50	45	10	2
59	1/1/50	50	45	10	2
60	1/1/50	50	45	10	2
61	1/1/50	50	45	10	2
62	1/1/50	50	45	10	2
63	1/1/50	50	45	10	2
64	1/1/50	50	45	10	2
65	1/1/50	50	45	10	2
66	1/1/50	50	45	10	2
67	1/1/50	50	45	10	2
68	1/1/50	50	45	10	2
69	1/1/50	50	45	10	2
70	1/1/50	50	45	10	2
71	1/1/50	50	45	10	2
72	1/1/50	50	45	10	2
73	1/1/50	50	45	10	2
74	1/1/50	50	45	10	2
75	1/1/50	50	45	10	2
76	1/1/50	50	45	10	2
77	1/1/50	50	45	10	2
78	1/1/50	50	45	10	2
79	1/1/50	50	45	10	2
80	1/1/50	50	45	10	2
81	1/1/50	50	45	10	2
82	1/1/50	50	45	10	2
83	1/1/50	50	45	10	2
84	1/1/50	50	45	10	2
85	1/1/50	50	45	10	2
86	1/1/50	50	45	10	2
87	1/1/50	50	45	10	2
88	1/1/50	50	45	10	2
89	1/1/50	50	45	10	2
90	1/1/50	50	45	10	2
91	1/1/50	50	45	10	2
92	1/1/50	50	45	10	2
93	1/1/50	50	45	10	2
94	1/1/50	50	45	10	2
95	1/1/50	50	45	10	2
96	1/1/50	50	45	10	2
97	1/1/50	50	45	10	2
98	1/1/50	50	45	10	2
99	1/1/50	50	45	10	2
100	1/1/50	50	45	10	2

APPENDIX C-17-7 (Continued)

Station 29 (Continued) Date 6-26-75

Species	Length (mm)	Weight (gm)	Food Items	
			#	
Flannelmouth sucker	176.0	42.0		U
Flannelmouth sucker	373.0	601.0		U Sand
Flannelmouth sucker	104.0	10.1		Insect parts
Flannelmouth sucker	364.0	407.0		Vegetation (Terrestrial origin) U
Flannelmouth sucker	169.0	48.1		Empty
Bluehead sucker	409.0	628.0	1	Baetidae
Bluehead sucker	266.0	140.0		U
Bluehead sucker	145.0	26.7		Empty
Mottled sculpin	83.0	8.0	2	Baetidae
			2	<u>Ephemerella</u>
Mottled Sculpin	92.0	11.0	4	Baetidae
			2	<u>Hydropsyche</u>
Mottled sculpin	90.0	10.0	2	Baetidae
			3	<u>Ephemerella</u>
Mottled sculpin	60.0	3.0	2	<u>Ephemerella</u>
Mottled sculpin	70.0	5.0	1	<u>Ephemerella</u>
Mottled sculpin	86.0	9.0	13	<u>Ephemerella</u>
Mottled sculpin	101.0	14.0	3	Baetidae
			3	<u>Ephemerella</u>
			1	<u>Hydropsyche</u>
Mottled sculpin	77.0	7.0		U

1911-1912

Name		Age		Sex	
1. John Smith		25		M	
2. Mary Jones		22		F	
3. Robert Brown		28		M	
4. Elizabeth White		20		F	
5. William Black		30		M	
6. Sarah Green		18		F	
7. James Grey		24		M	
8. Anna Hall		21		F	
9. Charles King		26		M	
10. Margaret Lee		19		F	
11. Thomas Miller		23		M	
12. Helen Wilson		27		F	
13. George Young		29		M	
14. Frances Adams		17		F	
15. Henry Baker		31		M	
16. Clara Clark		20		F	
17. Frank Davis		25		M	
18. Mary Evans		22		F	
19. John Fisher		28		M	
20. Elizabeth Grant		19		F	
21. William Harris		30		M	
22. Sarah Johnson		18		F	
23. James King		24		M	
24. Anna Lee		21		F	
25. Charles Miller		26		M	
26. Margaret Wilson		19		F	
27. Thomas Young		23		M	
28. Helen Adams		27		F	
29. George Baker		29		M	
30. Frances Clark		17		F	
31. Henry Davis		31		M	
32. Clara Evans		20		F	
33. Frank Fisher		25		M	
34. Mary Grant		22		F	
35. John Harris		28		M	
36. Elizabeth Johnson		19		F	
37. William King		30		M	
38. Sarah Lee		18		F	
39. James Miller		24		M	
40. Anna Wilson		21		F	
41. Charles Young		26		M	
42. Margaret Adams		19		F	
43. Thomas Baker		23		M	
44. Helen Clark		27		F	
45. George Davis		29		M	
46. Frances Evans		17		F	
47. Henry Fisher		31		M	
48. Clara Grant		20		F	
49. Frank Harris		25		M	
50. Mary Johnson		22		F	

APPENDIX C-17-7 (Continued)

Station 30		Date 6-23-75		
Species	Length (mm)	Weight (gm)	Food Items	
			#	
Flannelmouth sucker	390.0	510.0	1	Chironomidae
			3	Diptera adult
			33	<u>Ephemerella</u>
			27	<u>Hydropsyche</u>
			4	<u>Isoperla</u>
			5	Simuliidae
Flannelmouth sucker	429.0	669.0	1	Diptera adult
			1	<u>Ephemerella</u>
			1	Ephemeroptera
			1	<u>Hydroptila</u>
			1	Pyralidae
Flannelmouth sucker	423.0	769.0	1	<u>Ephemerella</u>
			1	Seed (Terrestrial origin)
Flannelmouth sucker	203.0	62.0	1	Chironomidae
Flannelmouth sucker	229.0	97.0	1	<u>Baetis</u>
			1	Ceratopogonidae
			9	Chironomidae
			1	<u>Hydropsyche</u>
Flannelmouth sucker	198.0	60.0	1	Chironomidae
Flannelmouth sucker	324.0	304.0	1	Chironomidae Sand
Flannelmouth sucker	169.0	29.0	3	<u>Baetis</u>
			43	Chironomidae
Bluehead sucker	160.0	20.0	8	Chironomidae Vegetative Material (Terrestrial origin) Sand
Bluehead sucker	210.0	63.0	1	<u>Baetis</u>
			2	Chironomidae
Roundtail chub	231.0	86.0	U	

1911-1912

Date	Description	Amount	
		Paid	Received
Jan 1	Balance	100.00	100.00
Jan 15	Cash	50.00	50.00
Feb 1	Cash	25.00	25.00
Feb 15	Cash	75.00	75.00
Mar 1	Cash	100.00	100.00
Mar 15	Cash	50.00	50.00
Apr 1	Cash	25.00	25.00
Apr 15	Cash	75.00	75.00
May 1	Cash	100.00	100.00
May 15	Cash	50.00	50.00
Jun 1	Cash	25.00	25.00
Jun 15	Cash	75.00	75.00
Jul 1	Cash	100.00	100.00
Jul 15	Cash	50.00	50.00
Aug 1	Cash	25.00	25.00
Aug 15	Cash	75.00	75.00
Sep 1	Cash	100.00	100.00
Sep 15	Cash	50.00	50.00
Oct 1	Cash	25.00	25.00
Oct 15	Cash	75.00	75.00
Nov 1	Cash	100.00	100.00
Nov 15	Cash	50.00	50.00
Dec 1	Cash	25.00	25.00
Dec 15	Cash	75.00	75.00
Total	1911-1912	1000.00	1000.00

APPENDIX C-17-7 (Continued)

Station 34

Date 6-25-75

<u>Species</u>	<u>Length</u> <u>(mm)</u>	<u>Weight</u> <u>(gm)</u>	<u>Food Items</u>	
			<u>#</u>	
Mottled sculpin	88.0	11.0	1	Baetidae
			9	Ephemerella
			2	Hydropsyche
			1	Tricorythodes

2.4.9 Springs and Seepages

2.4.9.1 Objectives

No change in objectives has occurred since Progress Report 3. See section 2.4.9 of Progress Report 3 for specific objectives.

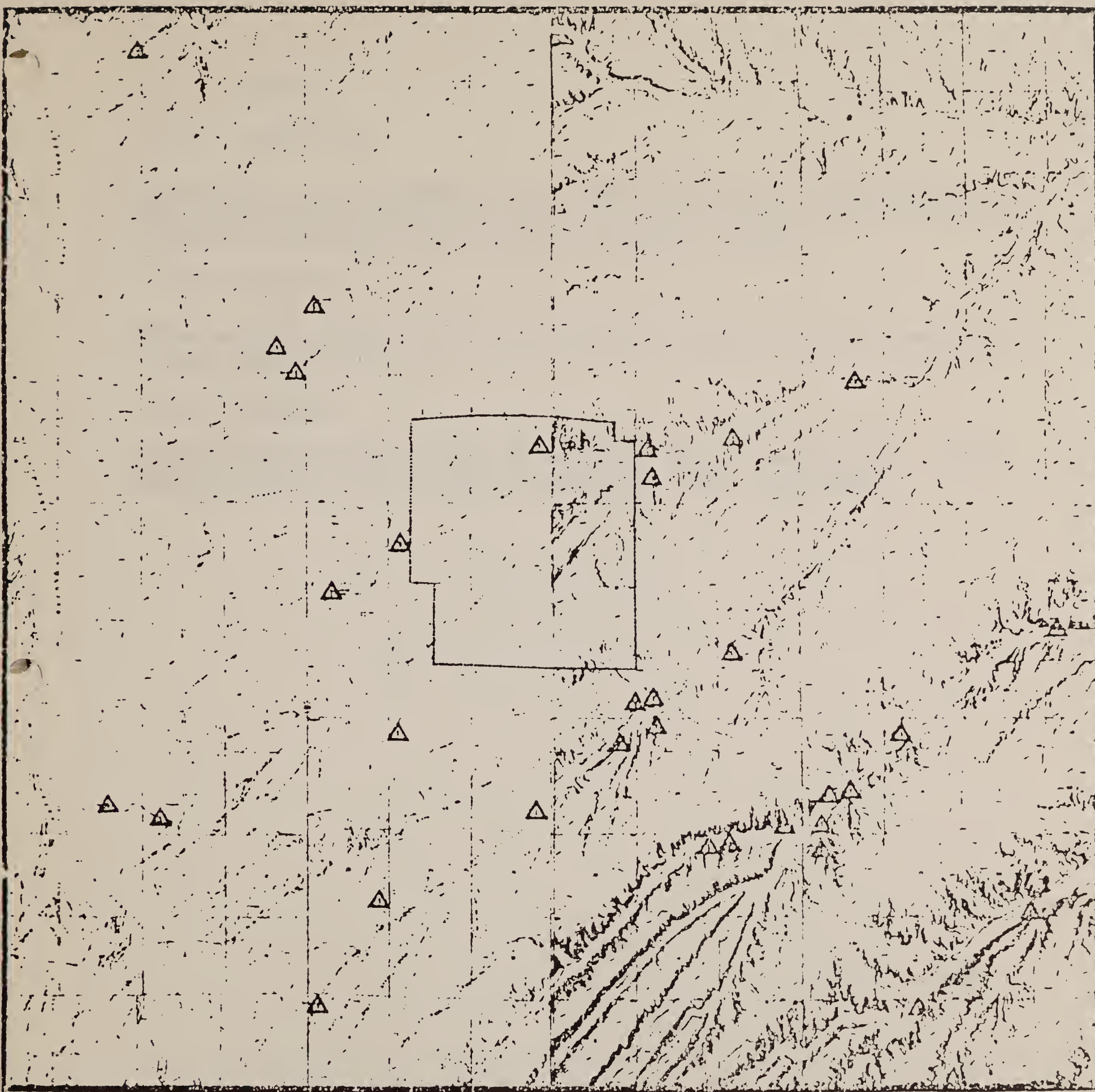
2.4.9.2 Methods

No change in methods has occurred since Progress Report 3. See section 2.4.9 of Progress Report 3 for specific methods.

2.4.9.3 Results

Locations of springs and seepages on or near Tract C-a are shown on Figure 2.4-2. Additional springs and seepages which are not identified on Figure 2.4-2 include:

- a series of seepages located from 25 to 200 feet above aquatic sampling Station 4 in Water Gulch
- Maverick Springs at aquatic sampling Station 3 in Corral Gulch
- a spring located approximately one mile above the confluence of Water and Corral Gulches
- a spring located approximately 100 feet above aquatic sampling Station 9 in Coral Gulch
- a spring located approximately one mile above the confluence of Water and Corral Gulches
- a spring at aquatic sampling Station 2 in Spruce Gulch
- a spring at aquatic sampling Station 1 in Cross Gulch approximately two miles above the confluence with Spruce Gulch
- a spring located approximately 2600 feet above aquatic sampling Station 1
- a spring located approximately 50 feet above aquatic sampling Station 8 in Box Elder Gulch
- a spring located immediately above aquatic sampling Station 8 in Box Elder Gulch
- a spring located approximately 50 feet above aquatic sampling Station 2 in Spruch Gulch
- a spring located approximately 1300 feet west of aquatic sampling Station 13 on Corral Gulch
- a seepage in Stake Springs Draw approximately 200 feet above its confluence with Corral Gulch



ENVIRONMENTAL
STUDIES FOR THE
RIO BLANCO OIL SHALE PROJECT

TRACT C-a

SPRING & SEEPAGE LOCATIONS

△ springs and seepages as of 5/75

Figure 2.4-2



LIMNETICS, INC.

Denver, Colorado

5/75





Below the map, there is a section containing text and possibly a legend or key. The text is very faint and difficult to read, but it appears to be organized into several lines or paragraphs. There are also some small, indistinct markings or symbols that might be part of a legend or key. The text is located in the lower third of the page, below the map.

2.4.10 Hydrology

2.4.10.1 Objectives

The objective of this segment of the aquatic program is to measure the approximate stream velocities at each site at the time of sample collection to assist in characterizing the existing aquatic habitat.

2.4.10.2 Methods

Stream velocity is measured at each sampling site with Gurley flowmeters or an equivalent device.

2.4.10.3 Results

The approximate stream velocities during the May - June and July - August sampling periods are presented in Appendices C-18-1 and C-18-2.

2.4.10 - Hydrology Data

APPENDIX C-18-1

STREAM FLOW
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX C-18-1

STREAM FLOW, RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE 1975
(Results are expressed in feet per second and, where appropriate,
are given for bank side and point of maximum flow.)¹

<u>Station</u>	Flow
	(ft/sec) s m
1	1.5
2	2.5
3	0.9
4	1.4
5	1.4
6	3.5;2.0
7	2.5
8	3.2;1.8
9	1.7
13	1.7
14	0.0
19	1.8
20	1.4
21	2.3
22	0.0
23	2.1;0.2
24	4.4;3.0
25	7.5
26	4.6;3.0
27	1.6;1.2
28	3.3;0.8
29	5.8;3.1
30	5.3
31	6.7
32	3.9;1.5
33	3.5
34	3.5
35	4.0;3.1

¹Stations 10-12 and 15-18 were dry at the time of sampling.

APPENDIX C-18-2

STREAM FLOW
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1975

APPENDIX C-18-2

STREAM FLOW, RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1975
(Results are expressed in feet per second and, where appropriate,
are given for bank side and point of maximum flow.)¹

<u>Station</u>	Flow (ft/sec)
	s m
1	0.4
2	1.3
3	1.3
4	1.5
5	0.4
7	1.5
8	1.7;2.0
9	2.1
13	2.0
14	0.0
15	0.8
17	0.4
18	0.8
19	1.8
20	1.4
21	0.8
22	0.7
23	1.0;2.9
24	2.4;2.2
25	2.8;2.9
26	1.9;2.9
27	0.4;1.2
28	1.0;1.3
29	2.1;3.1
30	2.7;3.1
31	2.4;3.1
32	1.7;2.9
33	1.0;2.8
34	1.0;1.7
35	1.7;2.9

¹Stations 6, 10 - 12, and 16 were dry at the time of sampling

2.4.11 Miscellaneous Studies

2.4.11.1 Objectives

No change in objectives has occurred since Progress Report 3. See section 2.4.11 of Progress Report 3 for specific objectives.

2.4.11.2 Methods

No change in methods has occurred since Progress Report 3. See section 2.4.11 of Progress Report 3 for parameters included in these studies. The frequency of collection of the various parameters included in these investigations and the list of parameters are presented in Table 2.4-3.

2.4.11.3 Results

Data from the April and May - June sampling periods are included in Appendices C-19-1, C-19-2, and C-20-1.

Table 2.4-3. List of Parameters and Sampling Frequency for Water Quality Investigations.

Semi-Monthly	Semi-Monthly ¹
Element or Compound	Element or Compound
Barium	Arsenic
Boron	Cadmium
Calcium	Lead
Chromium	Manganese
Copper	Mercury
Fluoride	Phosphorus
Iron	Cyanide
Lithium	Sulfide
Magnesium	
Potassium	
Selenium	
Silicon	
Sodium	
Sulfate	
Zinc	
Ammonia	
Bicarbonate	
Carbonate	
Chloride	
Color	
Dissolved solids	
Kjeldahl nitrogen	
Nitrate	
Nitrite	
Odor	
Oil and Grease	
Turbidity	

¹Subject to review

Table 2.4-3 (Continued)

Quarterly		
Organics	Radioactivity	Element or Compound
Total organic C	Gross Alpha	Complete Element Scan
• if < 10mg/l no additional analysis	> 4 picocuries/l analyze for RA 226	
• if > 10mg/l then, Dissolved organic C Suspended organic C Phenols Sulfate Nitrogen	Gross Beta • if > 100 picocuries/l analyze for Th 230 and Natural Uranium	
Chemical oxygen demand		
Fecal coliform		
Pesticides		

2.4.11 - Miscellaneous Studies Data

2.4.11 - Miscellaneous Studies

APPENDIX C-19-1

WATER QUALITY DATA. SPECTROGRAPHIC ELEMENT SCAN
RBOSP AQUATIC BASELINE STUDIES
APRIL 1975

APPENDIX C-19-1

WATER QUALITY DATA. SPECTROGRAPHIC ELEMENT SCAN RBOSP AQUATIC
 BASELINE STUDIES, APRIL 1975 (Data are expressed in $\mu\text{g/l}$ and are based
 upon dissolved solids.)

<u>Parameter</u>	<u>Station</u> <u>Replicate</u>			
	<u>25</u>		<u>34</u>	
	<u>A</u>	<u>B</u>	<u>A</u>	<u>B</u>
Aluminum (Al)	0.01	0.01	0.02	0.02
Antimony (Sb)	ND	ND	ND	ND
Arsenic (As)	ND	ND	ND	ND
Barium (Ba)	0.017	0.017	0.017	0.017
Beryllium (Be)	ND	ND	ND	ND
Bismuth (Bi)	ND	ND	ND	ND
Boron (B)	0.02	0.02	0.02	0.02
Cadmium (Cd)	ND	ND	ND	ND
Calcium (Ca)	55.0	53.6	53	54
Chromium (Cr)	ND	ND	ND	ND
Cobolt (Co)	ND	ND	ND	ND
Copper (Cu)	0.003	0.003	0.003	0.003
Germanium (Ge)	ND	ND	ND	ND
Iron (Fe)	0.008	0.013	0.013	0.013
Lead (Pb)	ND	ND	ND	ND
Magnesium (Mg)	23	22.6	22.6	22.7
Manganese (Mn)	ND	ND	ND	ND
Molybdenum (Mo)	ND	ND	ND	ND
Nickel (Ni)	ND	ND	ND	ND
Potassium (K)	6.4	6.2	6.4	6.4
Silica (Si)	0.05	0.09	0.09	0.09
Sodium (Na)	192	186	185	187
Strontium (Sr)	2.4	2.4	2.4	3.2
Tellurium (Te)	ND	ND	ND	ND
Tin (Sn)	ND	ND	ND	ND
Titanium (Ti)	ND	ND	ND	ND
Vanadium (V)	ND	ND	ND	ND
Wolfram (W)	ND	ND	ND	ND
Zirconium (Zr)	ND	ND	ND	ND

ND = Not Detected

Date	Description	Amount	Balance	Total	Interest	Fees	Remarks
1900	Jan 1	100.00	100.00	100.00	0.00	0.00	Opening balance
1900	Feb 1	50.00	150.00	150.00	0.00	0.00	Deposit
1900	Mar 1	25.00	175.00	175.00	0.00	0.00	Deposit
1900	Apr 1	75.00	250.00	250.00	0.00	0.00	Deposit
1900	May 1	100.00	350.00	350.00	0.00	0.00	Deposit
1900	Jun 1	150.00	500.00	500.00	0.00	0.00	Deposit
1900	Jul 1	200.00	700.00	700.00	0.00	0.00	Deposit
1900	Aug 1	250.00	950.00	950.00	0.00	0.00	Deposit
1900	Sep 1	300.00	1250.00	1250.00	0.00	0.00	Deposit
1900	Oct 1	350.00	1600.00	1600.00	0.00	0.00	Deposit
1900	Nov 1	400.00	2000.00	2000.00	0.00	0.00	Deposit
1900	Dec 1	450.00	2450.00	2450.00	0.00	0.00	Deposit
1900	Total	2000.00	2000.00	2000.00	0.00	0.00	Total

APPENDIX C-19-2
WATER QUALITY DATA
RBOSP AQUATIC BASELINE STUDIES
APRIL 1975

APPENDIX C-19-2

WATER QUALITY DATA. RBOSP AQUATIC BASELINE STUDIES
APRIL 1975. (Data are expressed in mg/l.)

PARAMETER	STATION REPLICATE			
	25		34	
	A	B	A	B
Lindane	<0.0001	<0.0001	<0.0001	<0.0001
Malathion	<0.0005	<0.0005	<0.0005	<0.0005
Parathion	<0.0001	<0.0001	<0.0001	<0.0001
Toxaphene	<0.002	<0.002	<0.002	<0.002

APPENDIX C-20-1

WATER QUALITY DATA
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1975

APPENDIX C-20-1

WATER QUALITY DATA. RBOSP AQUATIC BASELINE STUDIES
MAY-JUNE 1975. (Data are expressed in mg/l unless otherwise noted.)

PARAMETER	STATION REPLICATE			
	25		34	
	A	B	A	B
Arsenic (As), Diss	< 0.03	< 0.03	< 0.03	< 0.03
Barium (Ba), Diss	< 0.1	< 0.1	< 0.1	< 0.1
Boron (B) Diss	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium (Cd), Diss	< 0.01	< 0.01	< 0.01	< 0.01
Chromium (Cr) Total Diss	< 0.03	< 0.03	< 0.03	< 0.03
Copper (Cu), Diss	< 0.02	< 0.02	< 0.02	< 0.02
Cyanide (CN) Total	< 0.001	< 0.001	< 0.001	< 0.001
Fluoride (F), Diss	0.07	0.07	0.06	0.06
Iron (Fe), Total Diss	0.03	0.06	0.05	0.05
Lead (Pb) Diss	< 0.05	< 0.05	< 0.05	< 0.05
Lithium (Li) Diss	< 0.02	< 0.02	< 0.02	< 0.02
Manganese (Mn), Diss	< 0.02	< 0.02	< 0.02	< 0.02
Mercury (Hg), Diss (µg/l)	0.8	0.6	0.8	0.6
Phosphorus (P), Total Diss	0.02	0.02	0.02	0.03
Selenium (Se), Diss	< 0.01	< 0.01	< 0.01	< 0.01
Solvent extract (Oil)	0.025	< 0.006	< 0.006	0.037
Sulfate (S), Diss	16	16	15	16
Sulfide (S), Diss	< 0.02	< 0.02	< 0.02	< 0.02
Zinc (Zn), Diss	< 0.02	< 0.02	< 0.02	< 0.02

Diss = Dissolved

General Ledger			
Account	Debit	Credit	Balance
1000			
1010			
1020			
1030			
1040			
1050			
1060			
1070			
1080			
1090			
1100			
1110			
1120			
1130			
1140			
1150			
1160			
1170			
1180			
1190			
1200			
1210			
1220			
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2000			

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